

Minutes of the 21th Expert Appraisal Committee (Industry-2) meeting held during 27th to 29th March, 2017 at Brahmaputra Hall, Vayu Wing, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, New Delhi -110003.

Time : Meeting held at 10: 00 AM

21.1 Opening Remarks of the Chairman

21.2. Confirmation of the Minutes of the 20th Meetings of the EAC (Industry-2) held on 27th to 28th February, 2017 at New Delhi.

21.2.1 Reconsideration of the proposal “ Environmental Clearance for exploratory drilling in L-I PML, Kuthalam, PML, Kali, and Greater Kali PML and Neyveli PML IN Kauvery Basin , Tamil Nadu by M/s. ONGC- Environmental Clearance

The Member Secretary informed that the above mentioned proposal has been considered by the EAC in its 3rd meeting held during 18-19th January 2016. The committee during the said EAC meeting recommended for PH exemption in four districts viz. Nagapattinam, Ariyalur, Thanjavur and Tiruvarur, wherein 21 wells of the proposed project are located. The EAC also recommended for grant of Environmental Clearance for these 21 exploratory wells.

The Member Secretary further informed the EAC that the Ministry has decided to place the proposal before the EAC to reconsider the recommendations and justify the reasons for giving public hearing exemption in aforesaid four (4) districts.

The EAC discussed the issue with the ONGC officials who were present in the meeting for other proposals of ONGC. After examining the facts the EAC decided to seek information from the PP on following points:

1. The district and year- wise details of public hearings held earlier.
2. The distance between proposed wells and earlier wells for which public hearing has already been held in referred four districts.
3. Public agitation against the project.

27th March, 2017 (Day 1)

21.3 (Environmental Clearance)

21.3.1	Expansion of existing Sugar Plant (4500 TCD to 7500 TCD), Cogeneration unit (18 MW to 36 MW) and establishment of distillery (60 KLPD) with installation of incineration boiler to generate 3 MW power at Sy No 413 & 443, Hirenandi Village, Gokak Taluk, Belgaum
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District, Karnataka by M/s Soubhagya Laxmi Sugars Ltd.- Environmental Clearance [IA/KA/IND2/31793/2015, J-11011/269/2015-IA II (I)]

The Project Proponent and the accredited consultant M/s Environmental Health and Safety (EHS) Consultants Private Limited, Bangalore gave a detailed presentation on the salient features of the project and informed that:

1. The proposed project is for Expansion of existing Sugar Plant (4500 TCD to 7500 TCD), Cogeneration unit (18 MW to 36 MW) and establishment of distillery (60 KLPD) with installation of incineration boiler to generate 3 MW power at Sy No 413 & 443, Hirenandi Village, Gokak Taluk, Belgaum district, Karnataka by M/s Soubhagya Laxmi Sugars Ltd.
2. All molasses based distilleries are listed at Sl.No. 5(g) (i) of Schedule of EIA Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
3. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 3rd EAC meeting held during 18-19th January, 2015 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 05th March, 2016.
4. The PP has obtained EC for the existing unit (4500 TCD sugar cane crushing and 18 MW cogeneration) from SEIAA, vide letter No: SEIAA-6-IND-2010 dated 18.01.2011.
5. The cost of the expansion project is Rs. 252.5 Crores. The total land acquired for proposed project is 426 acres. Nearest water body is Kanvi halla (adjacent) and source of water is MI tank near Hanmpur (6.5 Km). Hanmapur reserve forest is located at 5.75 Km from the project site in the NW direction. The proposed project will lead to employment opportunities for 110 persons.
6. The product details (existing & after expansion) of the proposed project are:

S.No	Product	Production		Working days
		Existing	After expansion	
1	Sugar	4500 TCD	7500 TCD	180
2	Co-gen power	18 MW	36 MW	300
3	Distillery	---	60 KLPD	300

7. The total water requirement for the industry is 4650 KLD out of which 4050 KLD is from the reuse of condensate water during crushing season. Maximum fresh water requirement is 808 KLD during off season. Source of water is from Minor Irrigation tank of Hanmapur.
8. The total power required for the proposed project will be 500 kwh – for construction phase from KPTCL. During operation phase, power requirement for the sugar unit is 7.5 MW, for cogeneration unit during season is 3.0 MW and off season is 4.5 MW and for Distillery is 2 MW.
9. ESP will be provided to the proposed 100 TPH boiler. Effluent generated will be treated in the ETP of 1000 KLD capacity, Spent wash will be concentrated and used as fuel in the boiler. Pressmud, yeast sludge, ETP sludge will be used as manure, Bagasse will be utilised in the cogeneration process.
10. Ambient air quality monitoring was carried out at eight locations during March 2016-May

	<p>2016. The results of the AAQM reveals that, measured values for PM10, PM2.5, SO2, NO2 and CO were within the NAAQ standards, 2009 and parameters like Benzene, Benzo(a) pyrene, Arsenic, Nickel were not detected.</p> <p>11. Public hearing was conducted on 19.10.2016 by Karnataka State Pollution Control Board.</p> <p>12. The PP has produced the copy of the certified compliance report submitted by the Ministry's Regional Office at Bangalore vide letter no. EP/12.I/SEIAA/2010-11/95/KAR 2014 dated 25.01.2017.</p> <p>The committee has deliberated on the project proposal, public hearing report and certified compliance report. It is noted that the fresh water requirement is at a higher level. Committee desired that the PP shall maintain fresh water requirement at 8KLD/8 KLD for the unit and submit a revised water plan. The committee has also deliberated on the AAQ monitoring data and found it satisfactory. The committee has deliberated on the public hearing report. The concerns were raised regarding local employment, smell from the sugar industry, manure subsidy, etc. The EAC has noted that the issues have been satisfactorily responded by the PP and incorporated in the final EIA-EMP report. The committee noted that the compliance report submitted by the Regional Office indicates certain non complied point. The committee desired that PP shall submit an Action Taken Report on the non-complied points.</p> <p>Considering the above facts, the EAC has desired to defer the proposal till the submission of above information/documents by the PP.</p>
21.3.2	<p>Expansion of existing chemical manufacturing unit to Bulk Drug & Intermediates Manufacturing Unit at Survey Nos: 334 & 335, Turkalkhanapur Village, Hatnoora Mandal, Sangareddy District (formerly Medak District), Telangana by M/s Emmennar Pharma Pvt. Ltd. (Unit- III)- Environmental Clearance. [IA/TG/IND2/53477/2013, J-11011/23/2014-IA.II(I)]</p> <p>The Project Proponent and the accredited consultant M/s Rightsource Industrial Solutions Pvt. Ltd, Hyderabad gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> 1. The proposal is for Expansion of existing chemical manufacturing unit to Bulk Drug & Intermediates Manufacturing Unit at Survey Nos: 334 & 335, Turkalkhanapur Village, Hatnoora Mandal, Sangareddy District (formerly Medak District), Telangana by M/s Emmennar Pharma Pvt. Ltd. (Unit- III). 2. All Synthetic Organic Chemicals Industry located outside the notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC). The proposed unit is located outside the industrial area. 3. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 17th EAC meeting held during 18-19th March, 2014 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 23rd July, 2014. 4. The existing chemical manufacturing unit was established prior to EIA Notification, 2006 and still manufacturing the same products and hence doesn't have EC. The unit is operating with valid consent from SPCB.

5. The existing land area is 15.24 Acres/61671 Sq.m and no additional land is used for the proposed expansion. 33 % of the area will be developed as Greenbelt area. The estimated project cost is Rs. 13.91 Crores including investment on proposed project 9.11 Crores and existing plant cost of Rs. 4.80Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 174 Lakhs and the recurring cost (operation and maintenance) will be about Rs. 24 Lakhs Per annum. The project will lead to employment for 50 persons. PP proposed to allocate Rs. 45 Lakhs for 5 years @ 5% of Project cost towards Corporate Social Responsibility. It is reported that no national parks, wildlife sanctuaries Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10km distance. Manjeera River is flowing at a distance of 4.74 kms in WNW direction.
6. Ambient air quality monitoring was carried out 8 locations during October, 2014 – December, 2014 and the baseline data indicates the ranges of concentrations as: PM₁₀ (60.80 – 67.40 µg/ m³), PM_{2.5} (19.98 – 23.92 µg/ m³), SO₂ (10.90 – 13.91 µg/ m³), NO_x (16.96 – 19.49 µg/ m³), CO (0.29 – 0.46 mg/ m³) respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project expansion would be 67.93 µg/ m³, 17.28 µg/ m³, 24.37 µg/ m³ for PM₁₀, SO₂, NO_x respectively. The resultant concentrations are within the National Ambient Air Quality Standards (NQAQS).
7. The total water requirement is 195.5 m³/day of which fresh water requirement of 142.5 m³/day and will be met from ground water sources.
8. Generated effluent of 97 m³/day will be treated through stripper followed by MEE/ATFD, Biological Treatment Plant followed by RO plant will be based on Zero Liquid Discharge System.
9. Power requirement after expansion will be 1250 KVA including existing 250 KVA and will be met from Telangana State Southern Power Distribution Corporation Limited (TSSPDCL). Existing unit has 2 DG sets of 1x250KVA & 1x1000 KVA capacity, Stacks (height 8,10 mts) used as standby during power failures and no additional DGs Sets are proposed for expansion.
10. Existing unit has 1.5 TPH coal fired boiler & 0.6 TPH waste heat recovery boilers, 1.5 TPH coal fired boiler is continued as standby and 0.6 TPH waste heat recovery boiler is dropped. 8.0 TPH coal fired boiler is proposed for expansion with a stack of height of 32 mtr, Multi cyclone separator/ bag filter will be installed for controlling the particulate emissions (within statutory limit of 115 mg/ Nm³).
11. The CO₂ is liberated from manufacturing process and it is converted into dry ice, which is used for plant operations/sale.
12. Details of Solid waste/Hazardous waste generation and its management are as below:

S. No	Name of the Solid/Hazardous Waste	Quantity Kg/Day	Disposal Method
1	Organic waste	3412.00	Sent to Cement Industries
2	Spent Carbon	198.00	Sent to Cement Industries
3	Solvent Distillation Residue	84.00	Sent to Cement Industries
4	Inorganic Waste	5016.00	Sent to TSDF
5	MEE Salts	6082.60	Sent to TSDF

6	ETP Sludge	50.00	Sent to TSDF
7	Used Oils	600 Litres / Annum	TSSPCB Authorized Agencies for Reprocessing/Recycling
8	Detoxified Containers & Container Liners	500 Nos/ Month	After Detoxification sent to outside agencies
9	Used Lead Acid Batteries	4 Nos / Annum	Send back to suppliers for buyback of New Batteries
10	Ash from boiler	9400.00	Sent to Brick Manufacturers

13. Public hearing for the proposed expansion project has been conducted by the Telangana State Pollution Control Board on 21.12.2016.

14. The details existing and proposed products are:

List Of Existing Products And Its Capacities

S. No	Product Name	Quantity
1	Weak Nitric acid (58%) on 100% basis	20 TPD
2	Concentrated Nitric acid (98%) on 100% basis	20 TPD
3	Recovery of Triphenyl Phosphine form Organic waste*	4 TPD
	Total	44 TPD

List Of Proposed Products And Capacities After Expansion

S. No	Product Name	CAS Number	Therapeutic Category / Application	Quantity in MT/Month	Quantity in MT/Day
1	Meta chloro nitro benzene	121-73-3	Drug Intermediate	300.00	10.00
2	Meta chloro anisole	845-89-8	Drug Intermediate	240.00	8.00
3	Diethyl-D(-) Tartarate	13811-71-7	Resoluting Agent	60.00	2.00
4	Triphenyl phosphine	603-35-0	Group Protecting agent	90.00	3.00
5	Metformin hydrochloride	657-24-9	Hypoglycemic	450.00	15.00
6	Butaphosphan	17316-67-5	Phosphorous Supplement	120.00	4.00
7	Ciprofloxacin Hydrochloride	86483-48-9	Anti Bacterial	90.00	3.00
	Total			1350.00	45.00

	<p>The EAC has deliberated on the proposal and the public hearing report. The committee found the AAQ data satisfactory. The EAC has noted the issues raised in the public hearing are employment, ground water contamination, loss of crop due to pollution, validity of baseline data, drinking water etc. The EAC has noted that the issues came out during the public hearing are serious and desired to have a field visit by the EAC sub-committee. The EAC also desired that the PP shall comply with the direction issued by SPCB in CFO/CTO to the existing unit and submit a report in this regard.</p> <p>Considering the above facts, the EAC decided to defer the proposal till the submission of above information/documents by the PP and conduct of site visit by the sub-committee of EAC.</p>
21.3.3	<p>Bulk Drugs & Drugs Intermediates (2400 TPA) Manufacturing Unit at Sy. No. 75 (A), Kothur-B Village, Bidar Road, Zaheerabad (M), Sangareddy District (Formerly Medak), Telangana by M/s Deccan Remedies Limited- Environmental Clearance[IA/TG/IND2/31166/2015, J-11011/276/2015-IA II (I)]</p> <p>The Project Proponent and the accredited consultant M/s Pridhvi Envirotech (P) Ltd., Hyderabad gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> 1. The proposal is for Bulk Drugs & Drugs Intermediates (2400 TPA) Manufacturing Unit at Sy. No. 75 (A), Kothur-B Village, Bidar Road, Zaheerabad (M), Sangareddy District (Formerly Medak), Telangana by M/s Deccan Remedies Limited. 2. All Synthetic Organic Chemicals Industry located outside the notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC). 3. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 3rd meeting held during 18th – 19th January 2016 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 5th March, 2016. 4. The land area is 31.8 acres. The PP will develop Greenbelt in 33% of the total area. The estimated project cost is Rs. 12.4 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 2.5 crores and the recurring cost (operation and maintenance) will be about Rs. 85 lakhs per annum. The proposed project will provide employment to 100 persons. The PP proposes to allocate Rs. 63 lakhs @ of 5 % towards Corporate Social Responsibility. 5. It is reported that there are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors etc. lies within 10km distance from the project site. There are 6 Reserve Forests located within 10 KM radius of the project site, viz. Zahirabad RF (0.77 KM), Didgi R.F (2.57km East), Hadnur R.F (7.54km North East), Karbemal R.F (8.91km North West), Gopanpalli R.F (8.38km South West) and Shekhapur R.F (8.95km south). Narinja vagu a surface water body is within 10 KM distance from the project site.

6. The Ambient air quality monitoring was carried out at 8 locations during October 2015 - January 2016 and the baseline data indicates the ranges of concentration as: PM₁₀ (46.1-85.0 µg/m³), PM_{2.5} (20.4-35.3 µg/m³), SO₂ (7.3-16.6 µg/m³) and NO₂ (13.0-19.4 µg/m³) respectively. AAQ modeling study for point source emissions indicated that the maximum incremental GLCs after the proposed project would be 0.816 µg/m³, 2.097 µg/m³ and 2.484 µg/m³ with respect to PM₁₀, SO_x and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
7. The total water requirement is 174.6 m³/day of which fresh water requirement of 114.1 m³/day and will be met from ground water.
8. Treated effluent of 60.5 KLD will be reused out of total effluent of 87.7 KLD will be treated through Stripper, MEE and ATFD for high TDS Stream and Low TDS will be treated in Biological ETP followed by RO system. The plant will be based on Zero Liquid discharge system.
9. Power requirement for the proposed project will be – 1000 KVA and will be met from state power distribution corporation limited (TSCPDCL). 1 X 500 KVA DG Set will be used as standby during power failure. Stack (height 10 m) will be provided as per CPCB norms to the proposed DG set which will be used as standby during power failure.
10. 0.5 TPH Diesel fired boiler and 5 TPH Coal fired boiler will be installed. Multi cyclone separator/ bag filter with a stack of height of 6 m for 0.5 TPH Boiler and 20 m for 5 TPH Boiler will be installed for controlling the Particulate emissions (within statutory limit of 115mg/Nm³).
11. The process emissions generation is 227.6 kgs/day which are scrubbed through double stage scrubbers.
12. The solid waste/ Hazardous waste generation and its management are as below:

S. No	Description of Waste	HW Category No. as per rules	Unit	Quantity generated	Disposal Option
Hazardous waste					
1	Forced Evaporation Salts	34.3	TPM	108.3	TSDF, HWMP, Dundigal
2	Process Inorganic Salts	28.1	TPM	0.05	TSDF, HWMP, Dundigal
3	ETP Sludge	34.3	TPM	3.0	Cement Units/TSDF, HWMP, Dundigal
4	Process organic residues	28.3	TPM	65.08	Cement Units/TSDF, HWMP
5	Spent Carbon	28.2	TPM	1.74	Cement Units /TSDF, HWMP
6	Distillation Bottom Residue	36.4	TPM	1.5	Cement Units/TSDF, HWMP, Dundigal
Non Hazardous waste					

7	Mixed Spent Solvents & Stripper Distillate	28.5	KLM	15.0	Authorised recyclers
8	Detoxified Containers and Container Liners	33.3	Nos/ Month	1000	After detoxification disposed to outside agencies
9	Used Oil/Waste Lubricating Oil	5.1	LPM	200	Agencies authorized by TSPCB
10	Used Lead Acid Batteries	--	Nos./ annum	2	Returned back to dealer/ Supplier
11	Boiler Fly Ash	--	TPD	4.75	Brick Manufacturers

13. Public Hearing for the proposed project has been conducted by the Telangana State Pollution Control Board on 14.12.2016

14. The PP proposed to manufacture 12 API's (Bulk Drugs) and 9 Drug intermediates with total production level of 200.0 TPM (2400 TPA). The details of the proposed products are :

S.No	Product	Quantity in TPA
API's		
1	Guaifenesin	1080.0
2	Methocarbamol	660.0
3	Phenazopyridine HCl	60.0
4	Flucanazole	60.0
5	Mephensine	24.0
6	Mefenamic Acid	60.0
7	Chlorophenesine	24.0
8	Domperidone	48.0
9	Nitazoxanide	12.0
10	Melitracin HCl	6.0
11	Flupenithol	0.6
12	Ambroxil	89.4
	Total API's	2124.0
Intermediates		
13	1 - (3 - Chloropropyl)-2-Benzimidazolinone	60.0
14	1-Isopropyl-1,3-dihydro-2H-benzimidazol-2-one	24.0
15	2,4-Difluoro-alpha-(1H-1,2,4-triazolyl) acetophenone	96.0
16	2(2,4-Difluoro)-4-Amino-1H-1,2,4Trizoleacetophenone.HCl	60.0

17	3,3-dimethyl-2-benzofuran-1(3H)-one.	12.0
18	1- Phathalanol -3,3-dimethyl-1-Phenyl-1.	12.0
19	10,10-dimethylanthracen-9(10H)-one	6.0
20	9-[3-(dimethylamino)propyl]-9,10-dihydro-10,10-dimethylanthracene-9-ol	6.0
21	2-(Trifluoromethyl) thioxanthen-9-one	0.0
	Total Intermediates	276.0
	Total (API's + Intermediates)	2400.0

The EAC has deliberated on the project proposal and public hearing report. The committee noted that the baseline data has been conducted before the award of TOR. The EAC desired to have another one month baseline data to be collected and to submit the result after the modelling study. EAC also asked the PP to submit revised CSR plan (2.5 % of the project cost) with implementation period of five years having provision of :

1. Drinking water facility with RO plant, solar lights on village streets in nearby three villages bearing the maintenance cost.
2. Planting of 1000 perennial native trees per year till five years in the surroundings and nearby selected three villages..
3. Plan for regular testing of ground water through lab accredited by the Ministry for ensuring decontaminated agricultural water supply.

Considering the above facts, the EAC decided to defer the proposal till the submission of above information/documents by the PP.

Reconsideration of EC

21.3.4	<p>Expansion of Pesticide Products Unit at Plot. No. C1-76/523, 77/524, 78/525, 65/551, 66/550, 100 Shed Area, Notified Industrial estate, GIDC Vapi, Ta: Pardi, Di: Valsad, Gujarat by M/S Netmatrix Crop Care Limited -Environmental clearance-[IA/GJ/IND2/35671/2015, J-11011/11/2016-IA II (I)]</p> <p>The project proponent and the accredited consultant M/s Eco Chem Sales & Services, Surat gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> i. The proposal is for expansion of Pesticide products from 93.3 TPM to 840 TPM at plot. No. C1-76/523, 77/524, 78/525, 65/551, 66/550, 100 Shed Area, Notified Industrial estate, GIDC Vapi, Ta: Pardi, Di: Valsad, Gujarat by M/s. Netmatrix Crop Care Limited. ii. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in Its 4th meeting held during 11th -12th February 2016 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter
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	<p>dated 31st March 2016.</p> <p>iii. All Pesticides industry and pesticide specific intermediates (excluding formulations) units producing technical grade pesticides are listed at Sl.No. 5(b) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).</p> <p>iv. Ministry has issued EC earlier vide letter no. J-11011/145/2003-IA II (I), dated 23rd June 2005 for pesticide products unit to M/s. Ankur Agro Chemicals limited.</p> <p>v. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 17th meeting held during 26th- 29th December, 2016 and the committee has deferred the proposal for want of compliance report of the conditions of the existing EC certified by the Regional Office of Ministry. The EAC also recommended to the Ministry to consider the request of PP for name change.</p> <p>vi. The Existing land area is 4225 M²; No additional land will be used for proposed expansion.</p> <p>vii. Industry will develop Greenbelt in 33 % of the area i.e., 1350 m² out of 4225 m² of area of the project.</p> <p>viii. Total estimated project cost is Rs.15.93 Crores including existing investment of Rs. 10.86 crores. Total capital cost earmarked towards environmental pollution control measures in Rs.1.88 Crores and the Recurring cost (operation and maintenance) will be about Rs.10.83 crore per annum.</p> <p>ix. The proposed project will lead to employment of 50 persons. Industry proposes to allocate Rs.12.675 lakhs (2.5 %) towards Corporate Social Responsibility.</p> <p>x. It is reported that no national parks, wildlife corridors etc. lies within 10 KM distance. River Damanganga is flowing at a distance a distance of 2.5 km in E-W direction.</p> <p>xi. Ambient air quality monitoring was carried out at 8 locations during March 2016 to May 2016 and the baseline data indicates the range of concentrations as: PM₁₀ (74.9 – 98.4 µg/m³), PM_{2.5} (30.8 – 52.5 µg/m³), SO₂ (19.7 – 34.1 µg/m³) and NO₂ (24.5 – 37.0 µg/m³) respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 98.300 µg/m³, 33.733 µg/m³ and 36.917 µg/m³ with respect to PM₁₀, SO_x and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).</p> <p>xii. Total water requirement is 145.21 m³/day of which fresh requirement of 145.21 m³/day and will be met from GIDC.</p> <p>xiii. Treated effluent of 105.21 m³/day will be treated through Primary ETP followed by solvent stripper & spray dryer Plant will be based on zero Liquid discharge system.</p> <p>xiv. Power requirement after expansion will be 1000 KVA including existing 700 KVA and will be met from DGVCL State power Distribution Corporation limited (DGVCL). Existing unit has one DG set of 500 KVA capacity, additionally 500 KVA x 1 DG sets are used as standby during power failure. Stack (height 11 meters) will be provided as per CPCB norms to the proposed DG sets of 500 KVA in addition to the exiting DG sets of 500 KVA which will be used as standby during power failure.</p>
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- xv. Existing unit has installed 3 TPH coal fired (750 kgs/hr) & 2.8 TPH natural gas (400 SCM/Hr) fired boiler. Bag filter with a stack of height of 30 meters common chimney is installed for controlling the Particulate emission (within Statutory limit of 115 mg/Nm³) for proposed expansion 20 lac k cal /hr capacity of additional coal fired (100 kgs/hr) thermopack and 29 lacs k cal capacity of coal fired (628 kgs/hr) hot air generator will be installed with bag filter and 30 meter chimney will be installed respectively.
- xvi. Particulate matter will be generated from the proposed spray drying unit (115 m³/day Capacity). Cyclone separator followed by ventury scrubber with 30 meters chimney will be provided. To control HCl gas generated from the reaction, two stage water followed by alkali scrubber and 11 meters chimney will be provided. Packed column followed by ventury scrubber and 30 meters chimney will be provided to 600 kgs/hr capacity of LDO/FO fired (200 kgs/hr) incinerator.
- xvii. The Solid waste/Hazardous waste generation and its management are as below:
- | S. No. | Type of hazardous waste | Quantity, TPA | | Place of Storage | Disposal |
|--------|--|---------------|--------------------------|------------------|--|
| | | Existing | After proposed expansion | | |
| 1 | Used oil (5.1) | 0.5 | 1.0 | Drum | Sell to registered re-refiner |
| 2 | Discarded containers (33.3) | 10 | 200 | Pallets/d rums | Sell to authorized recycler |
| 3 | Sludge from wet scrubber (36.1) | 0.4 | 0.5 | HDPE bags | Dispose off into TSDF, Vapi |
| 4 | Spent/recovered solvent (28.5) | 10.59 | 22.78 | Tank | Recycle in process |
| 5 | ETP/MEE waste & Salt from Spray dryer (34.3) | 1080 | 6840 | HDPE bags | Dispose off into TSDF, Vapi |
| 6 | Process residue (29.2) | 0 | 358 | HDPE drums | Sent for co-processing or Incineration in own proposed incinerator |
| 7 | Incinerated ash (36.2) | 0 | 3.0 | HDPE bags | Sell to brick manufacturer |
- xviii. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.
- xix. The PP has submitted the certified compliance report of Regional Office issued vide letter no. 5-37/2005(ENV)/092 dated 01.03.2017.
- xx. The list of existing and proposed products are :

Existing Product List:

Sl. No	Product	Quantity (TPA)
1	Chlorpyrifos	1119.6
2	Hydro Chloric Acid (30%)- by-product	717.6

Proposed Products

Sl. No	Product	Quantity (TPA)
1	Chlorpyrifos Or Pretilachlor (2-chloro-2,6 diethyl-N-(2-propoxyethyl)acetanilide) Or TBEE (Trichlopyr ButoxyEthyl Ester)	5400
2	DDVP (2,2 Di Chloro Vinyl Di Methyl phosphate)	4680
3	Hydro Chloric Acid (30%) By-Product	3463.08

The EAC has deliberated on the project proposal and the certified compliance report. The EAC has found the certified compliance report to be satisfactory. The EAC has noted that the change of name of the PP has already been recommended by the committee. EAC has desired that PP shall prefer the neighbouring villages like Chanod, Dungra, Valwada, Ambach to provide drinking water facility (along with maintenance) to the villagers and computers to the school/college students under the CSR activities. PP shall also plant 1000 plants/year for five years in the plant premises/villages. PP shall also ensure 33 % green area in the premises/GIDC area. EAC also desired that, PP may have an environmental cell in the unit with a qualified person having Environmental Engineering/Environmental Science degree.

EAC after detailed deliberation has recommended the project for environmental clearance, with the following specific and other general conditions.

Specific Conditions:

- The unit will adopt Zero liquid discharge system.
- Total fresh water requirement should not exceed to 145.21 m³/day.
- The 10 m wide green belt of native perennial plant species shall be developed inside the plant periphery.
- CSR activities at 5% of the cost of the project. PP shall prefer the neighbouring villages like Chanod, Dungra, Valwada, Ambach to provide drinking water facility with RO Plant bearing maintenance cost, to the villagers and computers to the school/college students under the CSR activities.
- PP shall plant 1000 plants/year for five years in the selected villages. PP shall also ensure 33 % green area in the premises/GIDC area. Survival rate of the plants will be mentioned in the 6 monthly compliance report to RO, MoEF&CC.
- PP shall have an environmental cell in the unit with a qualified person having post graduate qualification in Environmental Sciences/ Environmental Engineering.

21.3.5	<p>Expansion of Bulk Drugs and Intermediates Manufacturing Unit at Sy. No 238 (Part), 239/A, 239/E, Dothigudem village, Pochampally mandal, Nalgonda district, Telangana by M/s. SVR Laboratories Pvt. Ltd.- Environmental Clearance [IA/TG/IND2/50585/2012, J-11011/7/2013-IA II (I)]</p> <p>The project proponent and the accredited consultant M/s TEAM Labs and Consultants, Hyderabad made a detailed presentation on the salient features of the project and informed the following:-</p> <ol style="list-style-type: none"> i. The proposal is for Expansion of Bulk Drugs and Intermediates Manufacturing Unit at Sy. No 238 (Part), 239/A, 239/E, Dothigudem village, Pochampally mandal, Nalgonda district, Telangana by M/s. SVR Laboratories Pvt. Ltd. ii. Terms of Reference (TOR) have been discussed and finalized during the 6th Expert Appraisal Committee (Industry) meeting held during 5th-7th March, 2013 for preparation of EIA/EMP report. The TOR was issued vide Ministry's letter dated 29th April, 2013. The validity of the TOR has been extended further period of one year vide Ministry's letter dated 24th June, 2016. iii. All Synthetic organic chemicals industry projects, located outside the notified industrial area/estate are listed at Sl.No. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC). iv. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 17th meeting held during 26th- 29th December, 2016 and the committee has deferred the proposal for following information: <ol style="list-style-type: none"> (i) PP has not provided adequate green belt for the proposed plant. PP need to submit a revised layout plan with 10 meter width green belt development in the periphery from the boundary of the project (ii) EAC desired that PP may plant 10,000 plants in the nearby village. (iii) Fresh water requirement will be 50 m/day (iv) Cyclone separator followed by bag filter will be provided to boiler and thermic floor heater. (v) PP need to submit the letter of commitment for full utilization of Fly ash to be produced by the proposed project by the Registered Brick Manufacturing Unit. v. The PP has submitted the following information: <ol style="list-style-type: none"> i. The total site area after expansion is 6 acres, land allocated for green belt is 2 acres. PP has submitted the revised layout plan for the proposed expansion. ii. PP has agreed to take up plantation of 10,000 plants in the surrounding villages. iii. PP has informed that the possibilities of reducing water consumption from 75.1 KLD have been checked. PP has brought down the fresh water consumption from 75.1 KLD to 62.13 KLD. iv. The sources of air pollution are from proposed 5TPH, 4TPH Coal fired boilers, 4.0 Lac K. Cal Thermic Fluid Heater and existing 1 TPH boiler. It is proposed to keep existing 1TPH and proposed 4TPH boilers as standby. It is proposed to provide cyclone separator followed by bag filter for the proposed 5 TPH, 4 TPH

	<p>coal fired boilers and 4.0 Lac K.Cal thermic fluid heater.</p> <ul style="list-style-type: none"> v. PP has submitted the agreement made with brick manufacturer for utilization of ash generation from boilers. vi. PP has also informed the EAC that the earlier EC dated 1st December, 2010 in has not been implemented and hence compliance report is not available. vii. PP informed that 100 people will be provided with employment, out of which 60% of vacancies will be allotted to the local people. <p>The EAC has deliberated on the project proposal and the additional documents submitted by the PP. EAC has noted that, as PP has not operated with the earlier EC, compliance report from the Regional Office may not be required. The EAC has found the additional information to be satisfactory.</p> <p>EAC after detailed deliberation has recommended the project for environmental clearance, with the following specific and other general conditions.</p> <p><u>Specific conditions:</u></p> <ul style="list-style-type: none"> i. The fresh water consumption shall be reduced from 75.1 KLD to 62.13 KLD. ii. Zero liquid discharge system shall be installed. iii. As proposed, the existing 1TPH and proposed 4TPH boilers shall be used only as standby. Cyclone separator followed by bag filter shall be provided for the proposed 5 TPH, 4 TPH coal fired boilers and 4.0 Lac K.Cal thermic fluid heater. iv. As proposed, ash generated from the boilers shall be sold to authorized brick manufacturers. v. As informed, PP shall not commence any operation with the previous EC, which is not operated. vi. As proposed, 100 people shall be provided with employment, out of which 60% of vacancies shall be allotted to the local people of villages namely Zublakpalli, Anthamnagudem, Lakkaram, Yellagiri and Jalalpur. vii. PP shall have an environmental cell in the unit with a qualified person having post graduate qualification in Environmental Sciences/ Environmental Engineering. viii. PP shall plant 10,000 plants in the surrounding villages. Survival rate of the plants will be mentioned in the 6 monthly compliance report to RO, MoEF&CC. PP shall also ensure 33 % green area in the premises/GIDC area.
21.3.6	<p>Setting up of Grain Based Distillery (100 KLD) at Village Goandpur Jaichand, Nichla & Singa, Tehsil Haroli, Distt. Una, Himachal Pradesh by M/s Rock & Storm Distilleries (P) Limited- Reconsideration of EC [IA/HP/IND2/31171/2015, J-11011/234/2015-IA II (I)]</p> <p>The project proponent and the accredited consultant M/s Mantras Green resources Ltd., Nasik gave a detailed presentation on the salient features of the project and informed that:</p> <ul style="list-style-type: none"> i. The Terms of References (TORs) was awarded in the 6th Meeting of the Expert Appraisal Committee (Industry -2) held during 29th March-02nd April, 2016

	<p>respectively for preparation of EIA-EMP report. The TOR letter has been issued by Ministry vide letter dated 17th May, 2016.</p> <p>ii. All Non-molasses based distilleries (≥ 60 KLD) are listed at SN 5(g) (ii) of Schedule of EIA Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).</p> <p>iii. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 17th meeting held during 26th- 29th December, 2016 and the committee noted that the PP has uploaded the Draft EIA /EMP report on the website, which is not acceptable. Committee also noted that PP has submitted the baseline data from October-December 2015 before recommendation of TOR. The EAC has deferred the project for following information:</p> <ol style="list-style-type: none"> One month baseline data additionally for January 2017. Submit Final EIA and EMP report. Permission from CGWA to be submitted. Environmental Sensitivity of 10 km radius to be submitted. <p>iv. The PP has informed the following:</p> <ol style="list-style-type: none"> The baseline data conducted for January, 2017 in addition to the data collected during Oct-Dec, 2015. Ambient air quality monitoring for PM_{2.5}, PM₁₀, SO₂, NO₂ and CO were monitored at eight locations in the study area. The observed mean levels of criteria pollutants are as follows: PM_{2.5} is 22.8 to 39.8 $\mu\text{g}/\text{m}^3$, PM₁₀ is 50.2 to 68.5 $\mu\text{g}/\text{m}^3$, SO₂ is 10.0 to 3.4 $\mu\text{g}/\text{m}^3$, NO₂ is 10.3 to 24.0 $\mu\text{g}/\text{m}^3$ and CO is <5.0 mg/m³. The baseline air quality levels are within the National Ambient Air Quality Standards prescribed for residential and industrial area (Standards are 60, 100, 80 and 80 $\mu\text{g}/\text{m}^3$ for PM_{2.5}, PM₁₀, SO₂ and NO₂ respectively). It is informed that the Final EIA/EMP report has been submitted and uploaded in the Ministry. It is informed that the The Himachal Pradesh Ground water authority Shimla vide permit no. HPGWA-NU/388 dated 25.05.2016 has granted permission for Tube well no. 1 and vide permit no. HPGWA-NU/389 dated 25.05.2016 has granted permission for Tube well no. 2. PP has also produced copy of permission. PP has reported that no environmentally sensitive area are located within 10 km from the project site. The PP proposed to install grain based Distillery having 100 KLPD (RS/ENA/AA) capacity at Village- Goandpur Jai Chand, Nichla & Singa, Tehsil- Haroli and District- Una, Himachal Pradesh. Grain will be used as Raw Material which will be met from local nearby markets. The project is planned to be established over an area of 14 acres. The plant will operate 330 days in a year as plant is grain based. The proposed plant will produce Rectified Spirit/ENA/ Ethanol. The power will be generated with steam during the process. The land for the project is 14 Acres. The Raw material (Grain) required is 280 TPD.
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	<p>The total fresh water requirement for 100 KLPD Distillery plant will be 922 KL/day. Permission from CGWA will be obtained for the extraction of Ground water. Total Power requirement of the unit will be 2500 KWH. One No. 750 KVA DG set is proposed as standby in case of power supply failure.→ 3.0 MW Cogeneration plant is proposed to be installed along with Distillery plant.→ Fuel is Rice Husk- 125TPD and Pet Cock- 80TPD</p> <p>vii. The cost of the project is Rs 101.0 crore.</p> <p>viii. Boiler with 30 TPH capacities is proposed to be installed. Fly ash from the Boiler will be used for land filling or will be given to brick manufacturing units for reuse. D.G. set of 750 KVA each will be installed for the power backup. Spent wash generated during operation, will be treated in Multi-effect evaporator.</p> <p>ix. The total manpower required for the proposed project is approx. 250 persons which include all Categories of unskilled, semiskilled, skilled personnel and contract labor.</p> <p>x. The public hearing for the project was conducted on 27/0/2016 by Himachal Pradesh State Pollution Control Board.</p> <p>EAC has deliberated on the proposal and public hearing report. EAC has noted that the addition information and data submitted by the PP is satisfactory. EAC has also noted that the issues raised during the public hearing has been addressed by the PP in the EIA/EMP report. EAC has desired that PP shall reduce the use of fresh water at 8KL/KL of alcohol and accordingly suggested to reduce to 800 m³/day.</p> <p>EAC after detailed deliberation has recommended the project for Environmental Clearance subject to following specific and general conditions.</p> <p>Specific conditions:</p> <ol style="list-style-type: none"> As proposed Zero liquid discharge system shall be installed. PP shall also ensure 33 % green area in the premises. 10 M wide green belt of perennial native plants shall be developed inside the plant periphery. Rain water Harvesting shall be done as per plan detailed in the EIA/EMP report. The daily fresh water consumption shall be reduced from 9.2 kl/kl to 8kl/kl. Ash to be generated from the boilers shall be sold to authorized brick manufacturers. Spent wash generated during operation, will be treated in Multi-effect evaporator. Number of working days of the distillery unit will not be more than 330 days in a year. As proposed, 105 people shall be provided with employment, out of which 60% of vacancies shall be allotted to the local people of nearby villages as per their qualification. A status report with name shall be provided in the 6 monthly compliance report to the RO, MoEF&CC. PP shall have an environmental cell in the unit with a qualified person having post graduate qualification in Environmental Sciences/ Environmental Engineering. PP shall plant 2000 perennial native plants per year till five years in the surrounding villages. Survival rate of the plants will be mentioned in the 6
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	monthly compliance report to RO, MoEF&CC.
21.3.7	<p>Expansion of Sugar Plant (7000 to 12000 TCD) and Molasses Based Distillery (100KLPD) plant along with 3MW co-gen power (in addition to the existing 30MW co-gen power plant) in Pawarwadi, Village - Majalgaon Taluka, Beed District, Maharashtra by M/s NSL Sugars Limited (Unit III)– Environmental Clearance – [IA/MH/IND2/26637/2015, J-11011/26/2015-IA II (I)]</p> <p>The project proponent and the accredited consultant M/s Pioneer Enviro Laboratories & Consultants Pvt. Ltd, Hyderabad gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken along with the draft Term of References for the preparation of EIA-EMP and informed that:</p> <ul style="list-style-type: none"> (i) The proposal is for expansion of sugar plant from 7000 to 12000 TCD and 100KLPD Molasses based distillery plant along with 3 MW co-gen power (in addition to the existing 30 MW co-gen power plant) in Pawarwadi, Village - Majalgaon Taluka, Beed District, Maharashtra by M/s NSL Sugars Limited (Unit III).The proposal is for unimplemented unit for which Environmental clearance granted in Sy. Nos. 85/27, 86/28, 199, 180, 180, 87, 144, 159, & 160 of Pawarwadi Village, Majalgaon Taluk, Beed District, Maharashtra By M/s. NSL Sugars Limited Unit – III. (ii) All molasses based distilleries are listed at S.N. 5(g) (i) of Schedule of EIA Notification under Category ‘A’ and are appraised at Central Level by Expert Appraisal Committee (EAC). (iii) The project proposal was considering by the Expert Appraisal Committee (Industry – 2) in its 34th meeting held during 17th February, 2015 and recommended Terms of References (TORs) for the Project. The TOR has been issued by the Ministry vide letter dated 29th April, 2015. (iv) The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 16th meeting held during 8-9th December, 2016 and the committee noted that proper green belting has not been done by the PP and ground water withdrawal permission has been expired. It was also noted that the validity of the consent to operate from SPCB has also been expired. EAC has also suggested to revise the layout plan of the proposed plant incorporating green belt as per norms around the periphery of the plant. EAC in its 16th meeting has suggested the PP to: <ul style="list-style-type: none"> (i) Explore the possibility of surface water availability. (ii) Conduct Occupational health analysis of workers through Government medical Doctor/Occupational Health certified doctor. (iii) Rework in order to reduce the water requirement. (v) The unit has obtained Environmental Clearance for 12000 TCD sugar plant, 30 MW cogeneration power plant and 100 KLPD Molasses based distillery plant in Pawarwadi Village, Majalgaon Taluk, Beed District, Maharashtra vide order No. J-11011/1264/2007-I A II (I) dated 30.04.2009 (in the name of M/s. Jay Mahesh Sugar Industries Limited). The company is now operating 7000 TCD sugar plant and 30 MW

co-gen power plant and the 100 KLPD distillery plant under erection stage. Environmental Clearance validity has been lapsed on 30.04.2014 and due to PP's mistake in interpretation of EC validity, the company was unable to apply for extension of validity before the EC validity tenure and PP has requested for issue of Environmental clearance for unimplemented unit. The unimplemented units comprise of 5000 TCD Sugar plant & 100 KLPD Molasses based Distillery plant. In addition, the company has also proposed to generate additional 3 MW power from Existing 2 X 20 TPH Boilers. The proposed capacity is below:

S.N	Unit	Capacity			
		As per EC No. J-11011 /1264/ 2007-IA II (I) dated 30.04.2009.	Implemented Units	Proposed Capacity	Capacity after expansion
1.	Sugar	12000 TCD	7000 TCD	5000 TCD	12000 TCD
2.	Co-gen Power plant	30 MW	30 MW	3MW	30+3 MW
3.	Distillery	100 KLPD	-	100 KLPD	100 KLPD

- (vi) Existing land area is 100 acres, No additional is land required for the present proposal.
- (vii) Greenbelt in 25 acres (about 16,000 plants) developed in the plant premises. In this proposal remaining 8 acres will be developed in the plant premises.
- (viii) The estimated cost for the proposed unimplemented units will be Rs. 110.0 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 440 Lakhs and the Recurring cost (operation & maintenance) will be about Rs. 25 Lakhs per annum.
- (ix) Total Employment due to this proposal will be 50 persons as direct & 100 persons indirect after expansion. Industry proposes to allocate Rs. 275 Lakhs @ of 2.5 % towards Corporate Social Responsibility.
- (x) It is reported that, there are no National park, wild life sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves. Wildlife Corridors etc. lies within 10 km distance. Sindaphana river & Godavari river are flowing at a distance of 3.1 Kms and 8.2 Kms in NW & SSE direction.
- (xi) Ambient air quality monitoring was carried out at 8 locations during 1st October, 2015 to 31st October, 2015 and the baseline data indicates the ranges of concentrations as: PM₁₀ (31.3 to 58.3 µg/m³) PM_{2.5} (19.0 to 35.1 µg/m³), SO₂ (6.5 to 12.4 µg/m³), and Nox(7.2 to 15.9 µg/m³), respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.4 µg/m³, 2.7 µg/m³ and 1.7 µg/m³ with respect to PM₁₀, SO_x and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards(NAAQS).
- (xii) The total water requirement as per the existing environmental clearance for integrated sugar complex is 6200 KLD. The actual water requirement for existing and proposed unimplemented unit of the integrated sugar complex is 3020 KLD and will be met from ground and surface.
- (xiii) The trade effluent generated from 5000 TCD of sugar plant will be treated in the

existing 1500 KLD capacity of ETP by Anaerobic system (UASB) followed by Activated Sludge Process. The treated effluent after ensuring compliance with the norms will be utilized for greenbelt & on land for irrigation in R&D farm. The Spent wash generated from Molasses based distillery will be treated in Biomethanisation followed by concentration in Multiple Effect Evaporators (MEE) and then will be sent to Bio composting by utilizing the pressmud from the sugar plant in the same premises.

- (xiv) Power requirement after expansion will be taken from existing power plant.
- (xv) ESP has been provided to existing Boiler (135 TPH). Outlet dust emission less than 150 mg/Nm³ Wet scrubbers will be provided to 2X20 TPH Boilers. Outlet dust emission will less than 50 mg/Nm³.
- (xvi) ESP has been provided to existing Boiler (135 TPH). Outlet dust emission less than 150 mg/Nm³ Wet scrubbers will be provided to 2X20 TPH Boilers. Outlet dust emission will less than 50 mg/Nm³.
- (xvii) The solid waste/Hazardous waste generation and its management is as below:

S.No	Solid waste	Quantity (TPD)			Disposal
		Existing	Expansion	Total	
Sugar Plant					
1.	Bagasse	2100	1500	3600	Will be used as fuel in Co-gen Boiler of 135 TPH & 2X20 TPH Boilers
2.	Molasses	315	225	540	Will be used in the proposed Distillery
3.	Filter cake	245	175	420	Will be used in Biocomposting
4.	ETP Sludge	0.7	0.5	1.2	Will be used as manure
Cogeneration Power plant					
5.	When Bagasse used as fuel in Boiler	21.6	--	21.6	Will be disposed to farmers to use as manure in Agricultural lands
	or				
	When Imported coal used as fuel in Boiler	--	43.8	43.8	Will be given to brick manufactures
Distillery					
6.	Yeast Sludge	--	7.6	7.6	Mixed with spent wash and used in Biocomposting

	<p>the RO, MoEF&CC.</p> <p>xi. PP shall have an environmental cell in the unit with a qualified person having post graduate qualification in Environmental Sciences/ Environmental Engineering.</p> <p>xii. PP shall plant 2000 perennial native plants per year till five years in the surrounding villages. Survival rate of the plants will be mentioned in the 6 monthly compliance report to RO, MoEF&CC.</p>
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21.4 Terms of Reference (TOR)

21.4.1	<p>Expansion of Existing Pesticide plant for manufacturing of Technical grade Pesticides by M/s Intech Pharma Pvt Ltd at Khasra 143, 143/1,118,118/1,118/2,119,120,121,122,124,126 village –Biratiya Kalan,Tehsil– Raipur,Distt– Pali (Rajasthan)- Terms of Reference</p> <p>The Member Secretary informed the EAC that the proposal was earlier considered in the 14th meeting of the EAC held during 26-27th October, 2016. It is mentioned in the minutes of the said EAC meeting that:</p> <p><i>“EAC noted that “Rajasthan State Pollution Control Board has issued CTO vide F. No. F(Tech)/pali(Raipur)/201(1)/2013-2014/925-926 and order no 2014-15/Pali/2156/3182 dated 31.12.2014 for Methyl Bromide plant to M/s Intech Pharma Pvt Ltd. situated at Khasra no. 143 village – Biratiya Kalan, Tehsil- Raipur, Distt-Pali, Rajasthan. The Committee noted that methyl bromide has been mentioned to be production of technical pesticide rather formulation. PP informed that CTO has been issued without mentioning formulation on which the Committee suggested PP, they seek the clarification from SPCB till the finalization of minutes. However, no documents have so far been submitted by PP in this regard. Therefore, it is case of violation under E(P), Act, 1986 by not following the stipulation given in EIA, Notification, 2006”.</i></p> <p>During the 21st EAC meeting the EAC noted that PP vide letter dated 18.02.2017 has submitted the CTO issued by Rajasthan SPCB vide letter no. F(PLG)/Pali(Raipur)/1(1)/2016-2017/10723-10726 dated 17.02.2017 mentioning the particular product as ‘Formulation of Methyl Bromide and Chloropicrin’ with quantity of 4000 MT. Thereafter, the project proponent and the accredited consultant M/s Enkay Enviro Services Pvt. Ltd., Jaipur gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> 1. The proposal is for Expansion of Existing Pesticide plant for manufacturing of Technical grade Pesticides At Khasra 143, 143/1,118,118/1,118/2,119,120,121,122,124,126 village – Biratiya Kalan,Tehsil – Raipur,Distt – Pali (Rajasthan) by M/s Intech Pharma Pvt Ltd. 2. The proposed project falls under 5 (b), (Pesticides industry and pesticide specific intermediates (excluding formulations)) of Schedule to the EIA Notification under “A”
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Category and are appraised at Central level by Expert Appraisal Committee (EAC).

3. The SPCB has issued CTO earlier vide no F (PLG)/Pali(Raipur)/(1)/2016-2017/10723-10726 dated 17/02/2017 for formulation of methyl bromide 4000 MTA to M/s INTECH PHARMA PVT LTD
4. The existing land area is 6900 m². Additional 35900 Sq. M land will be used for proposed expansion, which is already under process of CLU. The total land area after expansion will be 42907 SQM.
5. The industry will develop greenbelt in an area of 33% i.e. 14247.85 m² out of 42907 m² area of the project.
6. Total cost of the project will be Rs. 27.0 Crores
7. Total employment will be 430 persons including direct & indirect after expansion.
8. It is reported that No National Parks, Wildlife Sanctuaries, Biosphere reserve, Tiger/Elephant reserves, Wildlife Corridors etc lies within 10 km distance. Rivers Sukari Nadi, Lilri Nadi is flowing at a distance of 2.68(NE),5.28 (NW) km respectively
9. Total water requirement is 194.5 KLD (Daily fresh water demand 89.5 KLD, 105 KLD recycled water) of which fresh water requirement of 89.5 KLD and will be met from tanker supply.
10. Treated effluent of 13 KLD will be treated through ETP plant will based on Zero Liquid Discharge system .Domestic waste water will be 16 KLD treated STP and will be used for plantation.
11. Power requirement after expansion will 3800 kVA including existing 800 kVA and will be met from JVVNL. Additionally proposed DG set of 1x1000 kVA will be used as standby during power failure. Stack (height) will be provided as per CPCB norms to the proposed DG set of 1000kVA.
12. The list of existing and proposed products are:

Name of Product	Existing MT/Year	Proposed MT/Year	Total MT/Year	Remarks
Methyl Bromide	4000 (98% MB-Formulation)	10,200	14,200	10,000 (Technical)+4200 (98% formulation)
Chloropicrin	0	10000	10000	-
Aluminum Phosphide	0	17,857	17,857	10,000 (Technical)+7857 (56% formulation)
Zinc Phosphide	0	17,857	17,857	10,000 (Technical)+7857 (56% formulation)

	By Product				
	H ₃ PO ₄ (55-60%)	0	1656	1656	-
	Sulphuric Acid (50%-55 %)	0	6660	6660	-
	Sodium Bromide (15%-20%)	0	1500	1500	-
	Caustic Solution 10%	0	7296	7296	-
	<p>13. PP has also informed that the TOR application has been made during October, 2016 and has undertaken baseline data collection from October- December, 2016.</p> <p>EAC has deliberated on the proposal. EAC has noted the baseline data collected by the PP during October- December, 2016 may be considered for preparation of EIA/EMP report. EAC after detailed deliberation has recommended the project with the following additional TOR along with Standard TOR and public hearing, for preparation of EIA/EMP report.</p> <p><u>Additional TOR</u></p> <ol style="list-style-type: none"> Zero Liquid Discharge shall be ensured. No ground water shall be used. PP shall use only surface water for the proposed project. Briquette may be used as fuel. Green belt of 10 m width shall be planted along the periphery of the unit. Total 33 % of the area of the unit shall be ensured for green cover with trees. Public Consultation shall be done as per provisions of the EIA Notification, 2006. Draft EIA/EMP report shall be submitted to SPCB for conduct of Public hearing. The points raised during the Public hearing/Public consultation shall be properly addressed in the final EIA/EMP report. 				
21.4.2	<p>Establishment of Biopharmaceutical facility to manufacture monoclonal antibodies/therapeutic proteins at Plot no. 2-D1, Obadenahalli village Sy. No. 14/2, 14/3, 14/4, 15/1,15/2,15/3,15/4,15/5,16, 17/1,17/2,17/3,17/4 & 17/5 of 2-D1,Obadenahalli, 3rd Phase KIADB Industrial Area, Doddaballapur taluk, Bangalore Rural District – 561 205, Karnataka State by M/s. Stelis Biopharma Private Limited-Terms of Reference. [IA/KA/IND2/62546/2017, IA-J-11011/78/2017-IA-II(I)]</p> <p>The project proponent gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> The proposal is for Establishment of Biopharmaceutical facility to manufacture monoclonal antibodies/therapeutic proteins at Plot no. 2-D1, Obadenahalli village Sy. No. 14/2, 14/3, 14/4, 15/1,15/2,15/3,15/4,15/5,16, 17/1,17/2,17/3,17/4 & 17/5 of 2- 				

	<p>D1,Obadenhalli, 3rd Phase KIADB Industrial Area, Doddaballapur taluk, Bangalore Rural District – 561 205, Karnataka State by M/s. Stelis Biopharma Private Limited.</p> <p>ii. All Synthetic organic chemicals industry located in a notified industrial area/ estate are listed at Sl.No. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category ‘B’. However, PP has approached the Central Level Expert Appraisal Committee (EAC) for consideration under Category ‘A’, as the SEAC Karnataka has rejected the proposal citing that the proposed site is approved only for green and orange category of the industries.</p> <p>iii. The PP has obtained CFE vide no. 49/CTE-301075/180 dated 28.09.2016 for formulation facility from Karnataka SPCB under orange category and application has been submitted for CFO.</p> <p>iv. The proposed capacity is 40.986 kg per month (with 18 batches - each batch 2.277 kg) of monoclonal antibodies / therapeutic proteins (microbial).</p> <p>v. Total Plot Area is 10 acres (4.0473 Hectares)</p> <p>vi. PP has obtained CFE for formulation facility from KSPCB under orange category.</p> <p>vii. 125 persons will be employed in the proposed project.</p> <p>viii. Water requirement for the project is 146 KLD and will be sourced through KIADB.</p> <p>ix. The total power requirement for the expansion is 3500 KVA during operational phase which will be met from KPTCL (BESCOM). DG sets 3 No.s of 1500 KVA and HSD will be used in the DG set.</p> <p>x. The total estimated cost of the project is Rs. 248.00 Crores.</p> <p>xi. Dodda Tumkur kere (8 Km, SE) and Aradesanahalli kere (6 Km, S) is located within 10 km of the project site.</p> <p>EAC deliberated on the proposal. EAC after detailed deliberation has recommended the project with the following additional TOR along with Standard TOR and public hearing, for preparation of EIA/EMP report.</p> <p><u>Additional TOR</u></p> <p>i. The PP shall submit documents from the SPCB permitting the PP to undertake the proposed activity in the currently proposed project site.</p> <p>ii. Zero Liquid Discharge shall be ensured.</p> <p>iii. Green belt of 10 m width shall be planted along the periphery of the unit. Total 33 % of the area of the unit shall be ensured for green cover with trees.</p> <p>iv. Draft EIA/EMP report shall be submitted to SPCB for conduct of Public hearing. The points raised during the Public hearing/Public consultation shall be properly addressed in the final EIA/EMP report.</p>
21.4.3	<p>Establishment of Synthetic Organic chemical Manufacturing Unit at 407 (Part) and 411, Veliminedu Village, ChityalMandal, Nalgonda District, Telangana by M/s Actero Pharma Pvt. Ltd.,- Terms of Reference [IA/TG/IND2/62657/2017, IA-J-11011/59/2017-IA-II(I)]</p> <p>The project proponent and the accredited consultant Team Labs and Consultants, Hyderabad gave a detailed presentation on the salient features of the project and informed that:</p>

- i. The PP proposed to establish a Synthetic Organic chemical Manufacturing Unit at sy. no. 407 (Part) and 411, Veliminedu Village, Chityal Mandal, Nalgonda District, Telangana.
- ii. All Synthetic Organic Chemicals Industry located outside the notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).
- iii. The proposed unit obtained 11.275 acres of land on lease from principle organization M/s. Dasami Lab Pvt. Ltd., for a lease period of 25 years and allocated 3.72 acres of the area for green belt. The manufacturing capacity is as follows:

Manufacturing Capacity

S.No	Product Name	Capacity (TPM)
1	Abiraterone Acetate	0.5
2	Afatinib	0.7
3	Anastrozole	0.3
4	Bendamustine HCl	0.5
5	Bexarotene	9.4
6	Bicalutamide	1
7	Bosutinib	0.3
8	Capecitabine	11
9	Carfilzomib	0.5
10	Ceritinib	15
11	Cyclophosphamide	6
12	Dasatinib	2.5
13	Docetaxel	24.25
14	Enzalutamide	1
15	Erlotinib HCl	4
16	Gefitinib	10.5
17	Gemcitabine HCl	0.4
18	Ibrutinib	0.25
19	Imatinib Mesylate	1.5
20	Lapatinib	16
21	Lenvatinib	0.4
22	Olaparib	0.25
23	Palbociclib	0.2
24	Pazopanib	2.25
25	Sorefinib	24
26	Sunitinib	22.6
27	Tamoxifene	11
Total Worst Case: 22 Products on Campaign Basis		165

List of Utilities

S.No	Utility	Permitted
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1	Coal Fired Boilers	2 x 8 TPH
2	DG Sets (KVA)*	1 x 1500 kVA 2 x 1000 kVA 3 x 500 kVA

**DG sets will be used during load shut down by TSPDCL*

- iv. The required water shall be drawn from ground water sources in addition to reuse of treated wastewater. The total water requirement is in the order of 312.8 KLD consisting of 207.8 KLD fresh water and balance of 105 KLD is recycled water.
- v. The total power requirement will be met from TSPDCL. DG sets of capacity 1 x 1500 kva, 2 x 1000 kva and 3 x 500 kva are proposed to cater to energy requirement during load shut down by TSPDCL.
- vi. Coal will be used as fuel for proposed 2 x 8 TPH boilers. Consumption of coal is 75 TPD. It is proposed to provide bag filters as air pollution control equipment.
- vii. It is proposed to utilize effluent treatment system based “Zero Liquid Discharge” principle in proposed in neighboring (Principle Unit) M/s. Dasami Lab Pvt. Ltd. The high TDS effluents is in the order of 66.75 KLD are sent to Stripper followed by MEE, ATFD. The condensate from MEE and ATFD is treated along with LTDS effluent from utility blow downs and domestic wastewater of 43.5 KLD in biological treatment plant followed by Reverse Osmosis for reuse in cooling towers and boilers make-up.
- viii. Solid wastes are generated from process, solvent distillation, wastewater treatment and utilities. The effluent treatment system generates stripper distillate, ATFD salts and ETP sludge. The process operations generate process residue and recycling operation of distillation generates solvent residue and spent mixed solvents. The utilities i.e., coal fired boiler generates ash while DG sets generate waste oil and used batteries.
- ix. The stripper distillate, process residue and solvent residue are sent to cement plants for co-incineration based on acceptability. If these wastes are not suitable for co-incineration, the same is sent to TSDF facility. The evaporation salts and ETP sludge are sent to TSDF. Waste oil and used batteries from the DG sets are sent to authorized recyclers. The other solid wastes expected from the unit are containers, empty drums which are returned to the product seller or sold to authorize buyers after detoxification.
- x. The Capital cost of the project is Rs. 35 crores.
- xi. Chinna Vagu a seasonal stream is in SW direction at a distance of 6.8 Km from the site. There are two Reserve forests in the study area; Chityala RF at a distance of 6.4 Km in east direction, Shivanenigudem RF at a distance of 9.2 Km in NE direction of the site. There are no ecologically sensitive areas like national parks, sanctuaries within 10 km radius of the site.
- xii. The baseline study for ambient air quality, surface, ground water quality, noise, ecology and soil quality will be carried out during March 2017 to June 2017.

EAC after detailed deliberation has recommended the project with the following additional TOR along with Standard TOR as available on the Ministry website relevant to the sector and public consultation, for preparation of EIA/EMP report.

Additional TOR

	<ul style="list-style-type: none"> i. Zero Liquid Discharge shall be ensured. ii. Green belt of 10 m width shall be planted along the periphery of the unit. Total 33 % of the area of the unit shall be ensured for green cover with trees. iii. Draft EIA/EMP report shall be submitted to SPCB for conduct of Public hearing. The points raised during the Public hearing/Public consultation shall be properly addressed in the final EIA/EMP report. 													
21.4.4	<p>Specialty Chemicals Manufacturing Plant at plot No. 3206, GIDC Estate, Panoli, Dist. Bharuch, Gujarat by M/s. Synthetic Chemicals & Technology [IA/GJ/IND2/62693/2017, IA-J-11011/65/2017-IA-II(I)]</p> <p>The project proponent and the accredited consultant M/s Aqua-Air Environmental Engineers Pvt. Ltd., Surat gave a detailed presentation on the salient features of the project and informed that:</p> <ul style="list-style-type: none"> i. The proposal is for specialty chemicals manufacturing plant at plot No. 3206, GIDC Estate, Panoli, Dist. Bharuch, Gujarat by M/s. Synthetic Chemicals & Technology. ii. All Synthetic Organic Chemicals Industry located in a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'B'. However, considering the General Condition, i.e location of Industry within 5 km distance from the Critically Polluted Area (Ankleshwar), it is considered under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC). iii. The Proposed land area is 1500 m². Industry will develop Greenbelt in an area of 33% i.e. 300 m² out of 1500 m² of area of the project. The estimated project cost is Rs. 3 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 20 Lakhs and the recurring cost (operation & maintenance) will be about Rs. 5 Lakhs per annum. Industry purposes to allocate Rs. 2 Lakhs @ 2.5 % towards Corporate Social Responsibility. iv. It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Narmada River is flowing at a distance a distance of 7 km in N direction. v. Ambient air quality monitoring will be carried out at 8 locations during March-2017 to May-2017. vi. Total fresh water requirement is 23 m³/day and will be met from GIDC Water Supply. Treated effluent of 6.6 KL/Day will be sent to CETP, Ankleshwar for further treatment. Power requirement will be 500 KVA and will be met from DGVCL vii. Proposed unit will have 800 kg/hr fired boiler & 2 Lac. Kcal/hr. Thermopack. Multi cyclone separator/bag filter with a stack of height of 9 m & 30 m respectively will be installed for controlling the Particulates emissions (within statutory limit of 115 mg/Nm³). viii. The Solid waste / Hazardous waste generation and its management is as below: <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Name of Waste</th><th>Category</th><th>Qty. Waste generated (MT/Month)</th><th>Mode of Disposal</th></tr> </thead> <tbody> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				Sr. No.	Name of Waste	Category	Qty. Waste generated (MT/Month)	Mode of Disposal					
Sr. No.	Name of Waste	Category	Qty. Waste generated (MT/Month)	Mode of Disposal										

1	ETP Sludge	35.3	5	Collection, Storage, Transportation & disposal in TSDF.
2	Residue from Distillation/ Organic Process Waste	28.1	5	Collection, Storage, Transportation & send to cement industries for co-processing or incineration in CHWIF.
3	Discarded Drum	33.1	5	Collection, Storage, Transportation & Sell to GPCB authorized Vendor after decontamination.
4	Discarded Bags / Liner	33.1	2	Collection, Storage, Transportation & Sell to GPCB authorized Vendor after decontamination.
5	Used Oil	5.1	24 Liter/Month	Collection, Storage, Transportation & Sell to GPCB registered re-processor.
6	Spent Catalyst	28.2	1	Collection, Storage, Transportation & return to re-generator.
7	Ammonia	--	15	Collection, Storage, Transportation & Sell to end user
8	Acetic Acid	--	100	Collection, Storage, Transportation & Sell to end user

ix. The list of proposed products are :

Sr. No.	NAME OF PRODUCTS	Proposed Capacity (MT/Month)
1	Cyclopropyl amine OR	7.5
2	Alpha tetralone OR	9.5
3	Trimethylsilyl bromide OR	45.0
4	Imidazole hydrochloride OR	50.0
5	2-Methyl-4-benzonitrile OR	10.0
6	2-Aminothiophenol OR	8.0
7	6-chloro-2,4-diaminopyrimidine OR	10.0
8	2-mesitylenesulfonyl hydrazide OR	27.0
9	1,3-difluorobenzene OR	8.0
10	Methyl 4-(hydroxymethyl)benzoate OR	50.0
11	1,4-diamino-2-nitro-5-chlorobenzene OR	8.0
12	1, 1(3-CHLORO PHENYL) 4(3-CHLORO PROLYE) PIPERAZINE HYDROCHLORIDE	28.0
Total		50.0

	<p>EAC has deliberated on the proposal. EAC has recommended for exemption of Public hearing as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site located in the Notified industrial area. EAC after detailed deliberation has recommended the project with the following additional TOR along with Standard TOR as available on the Ministry website relevant to the sector, for preparation of EIA/EMP report.</p> <p><u>Additional TOR</u></p> <ul style="list-style-type: none"> i. Zero Liquid Discharge shall be ensured. i. Green belt shall be planted along the periphery of the unit. Total 33 % of the area of the unit shall be ensured for green cover with perennial trees.
21.4.5	<p>Bulk Drugs & its Intermediates manufacturing plant at plot No. 2924/1, GIDC Panoli, Dist. Bharuch, Gujarat by M/s. Jyot Pharmachem [IA/GJ/IND2/62626/2017, IA-J-11011/61/2017-IA-II(I)]</p> <p>The project proponent and the accredited consultant M/s Aqua-Air Environmental Engineers Pvt. Ltd., Surat gave a detailed presentation on the salient features of the project and informed that:</p> <ul style="list-style-type: none"> i. The proposal is for Bulk Drugs & its Intermediates manufacturing plant at plot No. 2924/1, GIDC Panoli, Dist. Bharuch, Gujarat by M/s. Jyot Pharmachem. ii. All Synthetic Organic Chemicals Industry located in a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'B'. However, considering the General Condition, i.e location of Industry within 5 km distance from the Critically Polluted Area (Ankleshwar), it is considered under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC). x. Proposed land area is 1500 m². Industry will develop Greenbelt in an area of 33% i.e. 250 m² out of 1500 m² of area of the project. xi. The estimated project cost is Rs. 2.5 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 20 Lakhs and the recurring cost (operation & maintenance) will be about Rs. 5 Lakhs per annum. xii. Industry purposes to allocate Rs. 1 Lakhs @ 2.5 % towards Corporate Social Responsibility. It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Narmada River is flowing at a distance a distance of 7 km in N direction. xiii. Ambient air quality monitoring will be carried out at 8 locations during March-2017 to May-2017. Total fresh water requirement of 12 m³/day and will be met from GIDC Water Supply. xiv. Treated effluent of 5 KL/Day will be sent to CETP, Panoli for further treatment. Power requirement will be 100 KVA and will be met from DGVCL. Proposed unit will have 800 kg/hr Steam boiler & 1 lakh calorie/hr.Hitherm boiler. Multi cyclone separator/bag filter with a stack of height of 12 m will be installed for controlling the Particulates emissions (within statutory limit of 115 mg/Nm³). xv. The Solid waste / Hazardous waste generation and its management will be as:.

Type of waste	Category	Proposed Quantity MT/Month	Disposal Method
Discarded Drums/Bags/Liners	33.1	4 MT/Month	Collection, Storage, Transportation, Decontamination & sale to GPCB approved vendors.
Used oil	5.1	0.001 KL/Month	Collection, Storage, Transportation & Sale to GPCB registered re-processor.
ETP Sludge	35.1	2 MT/Month	Collection, Storage, Transportation and Disposal at common TSDF site.
Distillation Residue	28.1	4.5 MT/Month	Collection, Storage, Transportation and sent for co-processing in cement industries or Disposal at common incineration site.
Acetic Acid	--	28 MT/Month	Collection, Storage, Transportation and sell to end user.
Hexa Methylene Disiloxane	--	48 MT/Month	Collection, Storage, Transportation & reprocess and reuse in next batch.

xvi. The list of proposed products are :

Sr. No.	Product Name	Proposed Capacity (MT/Month)
1.	1,3-Dichloroacetone	45
2.	Chlorhexidine Base	
3.	Veratraldehyde	
4.	4-Hydroxy D-phenyl glycine methyl ester hydrochloride	
5.	D-phenyl glycine methyl ester hydrochloride	

EAC	iii.	6.	Iodobenzene diacetate	50	has	
		7.	L-Proline benzyl ester hydrochloride			
	Inorganic Chemicals					
	8.	Calcium Bromide	50			
	9.	Zinc Bromide				
	10.	Magnesium Sulphate				
	11.	Sodium tri polyphosphate				
	Total			95		
	deliberated on the proposal. EAC has recommended for exemption of Public hearing as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site located in the Notified industrial area. EAC after detailed deliberation has recommended the project with the following additional TOR along with Standard TOR for preparation of EIA/EMP report.					
	<u>Additional TOR</u>					
ii. Zero Liquid Discharge shall be ensured.						
iii. Green belt shall be planted along the periphery of the unit. Total 33 % of the area of the unit shall be ensured for green cover with perennial trees.						
21.4.6	Dyes & Chemicals manufacturing plant at plot No. 2900/149, GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s. Gurawe Colours [IA/GJ/IND2/62741/2017, IA-J-11011/68/2017-IA-II(I)]					
The project proponent and the accredited consultant M/s Aqua-Air Environmental Engineers Pvt. Ltd., Surat gave a detailed presentation on the salient features of the project and informed that:						
i. Dyes & Chemicals manufacturing plant at plot No. 2900/149, GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s. Gurawe Colours						
ii. All Synthetic Organic Chemicals Industry located in a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category ‘B’. However, considering the General Condition, i.e location of Industry within 5 km distance from the Critically Polluted Area (Ankleshwar), it is considered under Category ‘A’ and is appraised at Central Level by Expert Appraisal Committee (EAC).						
iii. Proposed land area is 470 m ² . Industry will develop Greenbelt in an area of 33% i.e. 100 m ² out of 470 m ² of are of the project.						
iv. The estimated project cost is Rs. 80 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 20 Lakhs and the recurring cost (operation & maintenance) will be about Rs. 5 Lakhs per annum. Industry purposes to allocate Rs. 2 Lakhs @ 2.5 % towards Corporate Social Responsibility.						
v. It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Narmada River is flowing at a distance a distance of 7 km in N direction.						

- vi. Ambient air quality monitoring will be carried out at 8 locations during March-2017 to May-2017. Total fresh water requirement will be 5.4 m³/day and will be met from GIDC Water Supply.
- vii. Treated effluent of 2.65 KL/Day will be sent to CETP, Ankleshwar for further treatment. Power requirement will be 50 KVA and will be met from DGVCL. Proposed unit will have 800 kg/hr fired boiler. Multi cyclone separator/bag filter with a stack of height of 11 m will be installed for controlling the Particulates emissions (within statutory limit of 115 mg/Nm³).
- viii. The Solid waste / Hazardous waste generation and its management are as below:

Sr. No.	Type of waste	Category	Quantity	Disposal Method
1	ETP Sludge	35.1	2 MT/Month	Collection, Storage, Transportation and disposal to nearest TSDF site
2	Discarded Containers/Bags/ Liners	33.1	0.5 MT/Month	Collection, Storage, Transportation, decontamination & sell to GPCB authorized vendors
3	Used oil	5.1	0.05 MT/Month	Collection, Storage, Transportation & Sell to GPCB registered re-processor.

- ix. The list of proposed products are :

S.NO.	PRODUCTS	PRODUCTION CAPACITY
1	Acid Orange-7	15 MT/MONTH
2	Acid Red-88	
3	Acid Red-18	
4	Acid Yellow-36	
5	Acid Blue-113	
6	Acid Black-1	
7	Direct Orange-26	
8	Direct Red-31	
9	Direct Yellow-4	
10	Direct Violet-9	

	<table><tr><td>11</td><td>Direct Green-8</td><td rowspan="4"></td></tr><tr><td>12</td><td>Direct Black-29</td></tr><tr><td>13</td><td>Reactive Yellow-7 (Yellow M-GR)</td></tr><tr><td>14</td><td>Reactive Blue-4 (Brilliant Blue M-R)</td></tr><tr><td></td><td>15</td><td>Standardization of Dyes & Pigments (Drying & Packing)</td><td>20 MT/MONTH</td></tr><tr><td></td><td></td><td>TOTAL</td><td>35 MT/MONTH</td></tr></table>	11	Direct Green-8		12	Direct Black-29	13	Reactive Yellow-7 (Yellow M-GR)	14	Reactive Blue-4 (Brilliant Blue M-R)		15	Standardization of Dyes & Pigments (Drying & Packing)	20 MT/MONTH			TOTAL	35 MT/MONTH
11	Direct Green-8																	
12	Direct Black-29																	
13	Reactive Yellow-7 (Yellow M-GR)																	
14	Reactive Blue-4 (Brilliant Blue M-R)																	
	15	Standardization of Dyes & Pigments (Drying & Packing)	20 MT/MONTH															
		TOTAL	35 MT/MONTH															
	<p>EAC has deliberated on the proposal. EAC has recommended for exemption of Public hearing as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site located in the Notified industrial area. EAC after detailed deliberation has recommended the project with the following additional TOR along with Standard TOR for preparation of EIA/EMP report.</p> <p><u>Additional TOR</u></p> <ul style="list-style-type: none">i. Zero Liquid Discharge shall be ensured.ii. Green belt shall be planted along the periphery of the unit. Total 33 % of the area of the unit shall be ensured for green cover with perennial trees.																	
21.4.7	<p>Expansion of Bulk Drugs and Intermediates Manufacturing Unit (5.25 TPM to 150 TPM)at Sy.No. Parts of 289, 290, 291 and 292, Veliminedu Village, Chityal Mandal, Nalgonda District, Telangana by M/s. Hindys Lab Pvt. Ltd.-Terms of Reference [IA/TG/IND2/62736/2017, IA-J-11011/114/2017-IA-II(I)]</p> <p>The project proponent and the accredited consultant M/s Team Labs and Consultants, Hyderabad gave a detailed presentation on the salient features of the project and informed that:</p> <ul style="list-style-type: none">i. The proposal is for Expansion of Bulk Drugs and Intermediates Manufacturing Unit at Sy.No. Parts of 289, 290, 291 and 292, Veliminedu Village, Chityal Mandal, Nalgonda District, Telangana by M/s. Hindys Lab Pvt. Ltd.ii. All Synthetic Organic Chemicals Industry located outside the notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category ‘A’ and is appraised at Central Level by Expert Appraisal Committee (EAC).iii. M/s. Hindys Lab Pvt. Ltd., (formerly known as M/s. Hychem Laboratories) located at Sy. No. Parts of 289, 290, 291 and 292, Veliminedu village, Chityal Mandal, Nalgonda District, Telangana.iv. The unit obtained consent for establishment from APPCB for manufacturing of drug intermediates vide Order no. NAL-224/PCB/ZO/RCP/CFE/2006-65 dated 28.04.2006																	

in the name of Hychem Laboratories Pvt. Ltd.

- v. Hychem Laboratories has been taken over by Hind Life Science Pvt. Ltd and obtained from Register of Companies for name change from Hychem Laboratories to Hind Life Science Pvt. Ltd. Subsequently Hind Life Science Pvt. Ltd., name changed to Hind Life Sciences Pvt. Ltd. and Hindys Lab Pvt. Ltd. Hindys Lab Pvt. Ltd obtained consent for operation vide order no. TSPCB/RCP/NLG/CFO& HWM/HO/2016-05 dated 29.03.2016 valid till 31.07.2020.
- vi. It is proposed to expand the manufacturing capacity to 5.25 TPM to 150 TPM. 7.53 cres of land is acquired in addition to the existing 3.47 acres, and the total area available for expansion with a capital cost of Rs. 45 crores is 11 acres. The expansion mainly involves construction and commissioning of additional production blocks, utilities and Zero Liquid Discharge facility. Employment Potential for present proposal is 120 no..
- vii. The existing and proposed manufacturing capacity is as follows:

Manufacturing Capacity – Permitted

S.No	Name of the Product	Capacity	
		Kg/Day	TPA
Group A*			
1	2- Chloro methyl - 1,4 - methoxy -3,5-dimethyl Pyridine	116.66	42
2	N- Butyl Lithium	58.33	21
Total		174.99	63
Group B*			
3	5- Cyano Phthalide	61.1	22
4	Cis - Bromo benzoate	91.6	33
Total		152.7	55

Note: The above products are manufactured on campaign basis, i.e. at any point of time only one group will be manufactured.

Manufacturing Capacity – After Expansion

S.No	Product Name	Capacity TPM
1	Amlodipine Besylate	1
2	Clopidogrel Hydrogen Sulfate	5
3	Dex Lansoprazole	1
4	Divolproex sodium	3.5
5	Dulaxetine	5
6	Glimepiride	0.6

7	Mesalamine	1
8	Metoprolol	7
9	Nebivolol HCL	9
10	Pragabalin	1
11	Rosuvastatin	3
12	Sertraline HCl	4
13	Valaciclovir	1
14	2- Acetyl Ethoxy acetyl methoxy ether (AEA) (Acyclovir Intermediate)	12.4
15	Trans-4-(4-chlorophenyl)-cyclohexane carboxylic acid (Atovaquone Intermediate)	0.5
16	5-Cyano phthalide (Citalopram Intermediate)	8
17	Ethyl 3- {[3-Amino-4-(Methylamino) Benzoyl](Pyridine-2-Yl) Amino} Propanoate (EMP) (Dabigatran Etixilate Mesylate Intermediate)	1
18	(S)-3-(Dimethylamino)-1-(2-thienyl)-1-propanol (DMTP) (Duloxetine Intermediate)	0.5
19	(Cis-Exo)-2,3-norbornane dicarboximide [BDX] (Lurosidone HCl Intermediate)	9
20	(1R,2R)-cyclohexane-1,2-diyl-bis (methylene) dimethane sulfonate [MOC] (Lurosidone HCl Intermediate)	1.5
21	2-[2-[3(S)-[3-[2-(7-Chloro-2-Quinoliny)]-ethenyl]phenyl]-3- hydroxypropyl]phenyl-2-propanol (CQHP) (Montelukast Sodium Intermediate)	0.5
22	2,8-Diazo bicyclo Nonane (Moxifloxacin Intermediate)	0.5
23	Carbamyl Methyl-5-Methyl hexanoic Acid (CMM) (Pragabalin Intermediate)	4
24	(2S,3S,5S)-2-Amino-3-Hydroxy-5-Tert-Butylcarbonyl Amino 1,6-Diphenyl (BDH pure) (Ritonavir Intermediate)	0.5
25	Tert-butyl 2-((4R,6S)-6-((E)-2-(4-(4-fluorophenyl)-6-isopropyl-2-(N-methylmethane sulfonamido)Pyrimidin - 5-yl)vinyl)-2,2-dimethyl-1,3-dioxane-4-yl-) acetate (TIN) (Rosuvastatin Intermediate)	3
26	Poly allyl amine HCl (Sevelamir Intermediate)	5
27	Dibenzimidazole (Telmisartan Intermediate)	6
28	Diacetyl acyclovir (Valaciclovir Intermediate)	16
29	Camphor sulfonyl dichloride (Intermediate of Esmoperazole Magnesium)	7
30	D- Mandalic acid (Intermediate of Sertraline HCl)	5
31	4-(3,4-Dichlorophenyl)-3,4-dihydro-N-methyl-1-(2H)-Naphthaleneimine (Intermediate of Sertraline Hcl)	26
32	N2-(1-(S)-ethoxy carbonyl-3-phenyl propyl-N6-trifluoro acetyl-L-lyline (Intermediate of Lisinopril)	4
Total Worst Case: 27 Products on Campaign Basis		150
List of Utilities		

S.No	Utility	Permitted	Proposed	After Expansion
1	Coal Fired Boilers (TPH)	1 x 2	2 x 8	2 x 8 1 x 2
2	DG Sets (KVA)*	1x 250	1 x 1500 2 x 1000 3 x 500	1 x 1500 2 x 1000 3 x 500 1 x 250

**DG sets will be used during load shut down by TSPDCL*

viii. The total water requirement increased will be 299.6 KLD after expansion consisting of 206.6 KLD fresh water and 93 KLD of recycled water and same shall be met from ground water in addition to treated wastewater.

ix. The total power requirement will be met from TSPDCL. DG sets of capacity 1 x 1500 kva, 2 x 1000 kva and 3 x 500 kva are proposed to cater to energy requirement during load shut down by TSPDCL.

x. Coal will be used as fuel for proposed 2 x 8 TPH and existing 1 x 2 TPH coal fired boiler. Consumption of coal is 75 TPD. It is proposed to provide bag filters as air pollution control equipment.

xi. The effluents are treated in “Zero Liquid Discharge” system. The high TDS effluents after expansion in the order of 58 KLD are sent to Stripper followed by MEE, ATFD. The condensate from MEE and ATFD is treated along with LTDS effluent from utility blow downs and domestic wastewater of 39.5 KLD in biological treatment plant followed by Reverse Osmosis for reuse in cooling towers and boilers make-up.

xii. Solid wastes are generated from process, solvent distillation, wastewater treatment and utilities. The effluent treatment system generates stripper distillate, ATFD salts and ETP sludge. The process operations generate process residue and recycling operation of distillation generates solvent residue and spent mixed solvents. The utilities i.e., coal fired boiler generates ash while DG sets generate waste oil and used batteries.

xiii. The stripper distillate, process residue and solvent residue are sent to cement plants for co-incineration based on acceptability. If these wastes are not suitable for co-incineration, the same is sent to TSDF facility. The evaporation salts and ETP sludge are sent to TSDF. Waste oil and used batteries from the DG sets are sent to authorized recyclers. The other solid wastes expected from the unit are containers, empty drums which are returned to the product seller or sold to authorize buyers after detoxification

xiv. Capital cost of the project is Rs. 45 crores for proposed expansion.

xv. Chinna vagu flowing from southwest to southeast passing at a distance of 6.2 km from the plant site in southwest direction. Chityal RF is at a distance of 8 km in SE direction. There are no national parks or sanctuaries and ecologically sensitive areas within the impact area of 10 km.

xvi. The baseline study for ambient air quality, surface, ground water quality, noise, ecology

	<p>and soil quality will be carried out during March 2017 to June 2017.</p> <p>EAC after detailed deliberation has recommended the project with the following additional TOR along with Standard TOR and public hearing, for preparation of EIA/EMP report.</p> <p><u>Additional TOR</u></p> <ol style="list-style-type: none"> Zero Liquid Discharge shall be ensured. Green belt of 10 m width shall be planted along the periphery of the unit. Total 33 % of the area of the unit shall be ensured for green cover with perennial trees. The list of plant species and the survival rate shall be mentioned in the EIA report. Organic waste shall be composted. Draft EIA/EMP report shall be submitted to SPCB for conduct of Public hearing. The points raised during the Public hearing/Public consultation shall be properly addressed in the final EIA/EMP report.
21.4.8	<p>Utilization of Existing Steam to generate 20 MW of power by installation of new turbine at Birlasagar, Village-Chhaya, Taluka & District-Porbandar, Gujarat by M/s Saurashtra Chemicals (Division of Nirma Limited)–Environmental Clearance [IA/GJ/IND2/62748/2017, IA-J-11011/115/2017-IA-II(I)]</p> <p>The Project Proponent and the accredited consultant M/s Anand Environmental Consultants (P) Ltd., Ahmedabad gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> The proposal is for Utilization of Existing Steam to generate 20 MW of power by installation of new turbine at Birlasagar, Village-Chhaya, Taluka & District-Porbandar, Gujarat by M/s Saurashtra Chemicals (Division of Nirma Limited). The Proposal is for addition of 20 MW Power by installing a Turbine to the existing 20 MW Captive Power Plant. Thermal Power Plants (20 MW) are listed at Sl.No. 1(D) (i) of Schedule of EIA Notification under Category ‘B’. However, considering the general condition i.e location of Protected Areas notified under the Wild Life (Protection) Act, 1972 (53 of 1972) [Porbandar Bird Sanctuary] within 5 km distance from the project site, the project is considered under Category ‘A’ and are appraised at Central Level by Expert Appraisal Committee (EAC). The proposed installation is in the existing unit. The unit is operational since 1959. The unit was granted Consent Order No.- 2128, dated 22-9-1982 by the Gujarat Water Pollution Control Board and has a current valid Consolidated Consent & Authorization (CC&A) vide letter no.AWH-66634 dated: 02/12/2014 and further amendment dated 16/07/2015, 27/10/2015, 13/12/2016 valid upto 8-9-2019 issued by Gujarat Pollution Control Board (GPCB), Gandhinagar. Existing turbo generators are extraction and (2.5 bar) back pressure type, non condensing. In the present scenario we are required to vent out 2.5 bar steam during process disturbances as well as reactors change over and tripout of process. For steam and power balance as well as smooth start up of process we intend to install NEW TG of 20 MW. The PP proposes to install a New 20 MW Turbo-Generator (TG) to utilize the above

stated steam.

- vii. The installation of the stated 20 MW turbine will reduce dependence on and will also assist during the frequent tripping of grid power.
- viii. The stated 20 MW of power will cater to power shortage requirement as well as the residential power requirement.
- ix. The desire is to reduce power import from grid to almost zero.
- x. Present steam requirement is catered by two boilers 120 TPH x 2. Power requirement of plant and residential township of the plant is catered by this Captive Power Plant with two turbines having power generation capacity 20 MW.
- xi. There will be no additional water requirement, no wastewater generation, no fuel requirement or solid/hazardous waste generation.
- xii. The project cost is Rs. 25 crores only.
- xiii. The product details are as below:

Product	Existing Quantity	Proposed Additional Quantity	Total
Power (Captive Power Plant)	20 MW	20 MW**	40 W

- xiv. Air cooled system will be installed to eliminate requirement of water for cooling. The low pressure steam exiting from turbine will be used for low pressure applications and the condensate will be reused.
- xv. PP will sell fly ash including bottom ash to external fly ash users and is trying to achieve 100% fly ash sale/ utilization as required per Fly Ash Notification – 2009 and subsequent amendments.
- xvi. The source of water is Sea Water intake from Intake Station @ 176100 cubic meter per day. No additional Sea Water Requirement.
- xvii. Considering the above facts, the PP has requested to consider the project under Category B2 and grant EC without Public hearing and EIA/EMP report.

EAC has deliberated on the proposal. EAC (Industry-2) has noted that the proposal has been considered by the 1st meeting of the Re-constituted EAC (Thermal) held on 28th December, 2016. The EAC (Thermal) has recommended for grant of additional TOR in addition to Standard TOR. As the proposal is for captive power plant to the existing industry, Thermal sector has requested PP vide letter dated 15.02.2017 to apply afresh online proposal in the Industry-2 sector. EAC (Industry-2) has noted that, the proposed activity is almost pollution free activity and will not leave any impact in the existing environment. EAC was of the view that the proposed addition of 20 MW Power by installing a Turbine to the existing 20 MW Captive Power Plant does not require EIA and Public hearing.

The Member Secretary clarified the provisions of the EIA Notification, 2006, as amended from time to time, to the EAC and informed that only expansion projects which has obtained EC from Ministry/SEIAA under the provisions of the EIA Notification, 2006 can be given such exemption after due diligence by the EAC under para 7(ii) of EIA Notification, 2006. The unit

	<p>wherein the proposed CPP is going to be installed is operational since 1959 and never gone through the EIA process under EIA Notification, 2006.</p> <p>EAC after detailed deliberation and due diligence was of the view that installation of a turbine for utilizing the vent out steam will not alter the environmental scenario of the project site and surroundings. The EAC unanimously recommended the project for grant of Environmental Clearance exempting public hearing and EIA/EMP report under para 7(ii) of EIA Notification, 2006.</p>
21.4.9	<p>Setting up of Alpha Blue and Beta Blue Manufacturing Plant in existing Unit at Plot No. 3208, Phase-III, GIDC, Panoli-394 116, Dist-Bharuch, Gujarat by M/S. KRC Chemicals-Terms of Reference [IA/GJ/IND2/62200/2017, IA-J-11011/86/2017-IA-II(I)]</p> <p>The project proponent and the accredited consultant M/s Aqua-Air Environmental Engineers Pvt. Ltd., Surat gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> The proposal is for setting up of Alpha Blue and Beta Blue Manufacturing Plant in existing Unit at Plot No. 3208, Phase-III, GIDC, Panoli-394 116, Dist-Bharuch, Gujarat by M/S. KRC Chemicals. All Synthetic Organic Chemicals Industry located in a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'B'. However, considering the General Condition, i.e location of Industry within 5 km distance from the Critically Polluted Area (Ankleshwar), it is considered under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC). Existing land area is 1500 m². No additional land will be used for proposed expansion. Industry will develop Greenbelt in an area of 33% i.e. 150 m² out of 1500 m² of area of the project. The estimated project cost is Rs. 2 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 25 Lakhs and the recurring cost (operation & maintenance) will be about Rs. 5 Lakhs per annum. Industry purposes to allocate Rs. 1 Lakhs @ 2.5 % towards Corporate Social Responsibility. It is reported that no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Narmada River is flowing at a distance a distance of 7 km in N direction. Ambient air quality monitoring will be carried out at 8 locations during March-2017 to May-2017. Total water requirement will be 39.5 m³/day of which fresh water requirement of 39.5 m³/day and will be met from GIDC Water Supply. Treated effluent of 11.6 KL/Day will be sent to CETP, Panoli for further treatment. Power requirement will be 300 KW (Existing: 100 KW & Proposed: 200 KW) and will be met from DGVCL. Existing unit has Steam boiler & proposed one new boiler. Multi cyclone separator/bag filter with a stack of height of 12 m will be installed for controlling the Particulates emissions (within statutory limit of 115 mg/Nm³). The Solid waste / Hazardous waste generation and its management is as below:

CAT . NO.	HAZARDOUS WASTE	SOURCE	Existing (MT/Month)	Proposed (MT/Month)	Total (MT/Month)	METHOD OF DISPOSAL
5.1	Used Oil	From plant & machinery	0.01	0.01	0.02	Collection, Storage, Transportation & send to authorized recycler
33.1	Discarded barrels/containers/liners	From raw material packaging	1	2	3	Collection, Storage, Transportation, send to authorized vendors
35.3	ETP Sludge	From ETP	--	5	5	Collection, Storage, Transportation & send to TSDF Site
20.1	Dist. Residue	From Distillation	--	0.075	0.075	Collection, Storage, Transportation & send to Common Incinerator Site or cement industries for co-processing

The list of existing & proposed products are:

Sr. No.	NAME OF PRODUCTS	EXISTING (MT/Month)	ADDITIONAL (MT/Month)	TOTAL PROPOSED AFTER EXPANSION (MT/Month)
1	Sodium Sulphate	100	--	100
2	Standardization of Dyes & Pigments	100	--	100
3	Alpha Blue	--	20	20
4	Beta Blue	--	10	10
Total		200	30	230

EAC has deliberated on the proposal. EAC has recommended for exemption of Public hearing as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site located in the Notified industrial area. **EAC after detailed deliberation has**

	<p>recommended the project with the following additional TOR along with Standard TOR for preparation of EIA/EMP report.</p> <p><u>Additional TOR</u></p> <ol style="list-style-type: none"> Zero Liquid Discharge shall be ensured. Green belt shall be planted along the periphery of the unit. Total 33 % of the area of the unit shall be ensured for green cover with perennial trees. 															
21.4.10	<p>Expansion of Agro Chemicals Manufacturing Unit at Plot No. 54 to 56, 58 to 61, Phase II IDA, Pashamylaram, Patancheru Mandal, Sangareddy District, Telangana by M/s. Nectar Crop Sciences Private Limited- Terms of Reference – [IA/TG/IND2/62216/2017, IA-J-11011/87/2017-IA-II(I)]</p> <p>The project proponent and the accredited consultant M/s TEAM labs and Consultants, Hyderabad gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> The proposal is for Expansion of Agro Chemicals Manufacturing Unit at Plot No. 54 to 56, 58 to 61, Phase II IDA, Pashamylaram, Patancheru Mandal, Sangareddy District, Telangana by M/s. Nectar Crop Sciences Private Limited. All Pesticides industry and pesticide specific intermediates (excluding formulations) are listed at S.N. 5(b) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC). PP has informed that M/s. Nectar Crop Sciences Pvt. Ltd. (formerly known as Hyderabad Chemicals Products Ltd.) is located in Notified Industrial area of Pashamylaram at Plot No. 54 to 56, 58 to 61, Phase II IDA, Pashamylaram, Patancheru Mandal, Sangareddy District, Telangana obtained consent and authorization (CFO) for manufacturing of 70 TPM of agro chemicals vide Letter No. TSPCB/RCP/SR-I/11597/CFO/HO/2015-2743 dated 24.02.2016 valid till 31.08.2020. The unit obtained environmental clearance vide letter no. F. No. J-11011/183/2003-IA II (I) dated 21.03.2006. It is proposed to increase the manufacturing capacity of agro chemicals from 2.33 TPD to 9 TPD, formulations 16.67 KLM to 80 KLM and proposed R&D and Pilot plant with a capacity of 100 kg/day in existing site area of 5.31 acres. Expansion includes capacity enhancement of equipment, modernization of ZLD system and inclusion of utilities. The total capital cost for proposed expansion is Rs. 50 crores. The proposed expansion has employment potential of 60 no.s. Steam requirement for process and ZLD system shall be met from existing 5 TPH and 1.5 TPH coal fired boilers, while existing 1 x 3 TPH coal fired boiler will be kept as standby. It is proposed to establish 1 x 6 Lac K.cal /hr coal based and 1 x 2 Lac. K.cal/hr HSD based Thermic Fluid Heaters for process requirement. The manufacturing capacity is as follows: <table border="1"> <thead> <tr> <th rowspan="2">S. No</th><th rowspan="2">Name of Product</th><th rowspan="2">CAS No.</th><th colspan="2">Capacity (TPD)</th></tr> <tr> <th>Permitted*</th><th>After Expansion</th></tr> </thead> <tbody> <tr> <td>1</td><td>Acephate</td><td>30560-19-1</td><td>0.83</td><td>2.53</td></tr> </tbody> </table>				S. No	Name of Product	CAS No.	Capacity (TPD)		Permitted*	After Expansion	1	Acephate	30560-19-1	0.83	2.53
S. No	Name of Product	CAS No.	Capacity (TPD)													
			Permitted*	After Expansion												
1	Acephate	30560-19-1	0.83	2.53												

2	Imidachlopride	138261-41-3	0.50	0.14
3	Thiomethoxam	153719-23-4	0.50	2.0
4	Acetamiprid	160430-64-8	0.33	0.07
5	Buprofugin	69327-76-0	0.15	2.25
6	Pretilachlor	51218-49-6	0.50	1.5
7	Tricyclazole	41814-78-2	0.28	0.14
8	Hexaconazole	79983-71-4	0.17	0.06
9	Clodinofop	105512-06-9	0.33	0.72
10	Ethion	563-12-2	0.44	0.07
11	Cloquintocet Mexyl	99607-70-2	0.15	0.06
12	Sulfosulfron	141776-32-1	0.10	0.06
13	Fipronil	120068-37-3	0.07	0.01
14	Dimethoate	60-51-5	0.15	0.25
15	Thiodicarb	59669-26-0	0.07	0.03
16	Bispyribac Sodium	125401-92-5	--	0.06
17	Quizalofop Ethyl	76578-14-8	--	0.04
18	Pymetrozine	123312-89-0	--	0.04
19	Azoxystrobin	131860-33-8	--	0.04
20	Bifenthrin	82657-04-3	--	0.04
Total Worst Case: 5 Products on campaign basis after expansion			2.33*	9
	R&D and Pilot Plant Products		--	0.1
	Formulations		16.67 KLM	80 KLM

** Permitted: At any point of time only 4 products are manufactured*

List of By-Products

S.No	Name of Product	Name of By-Product	Capacity (Kg/day)	
			Permitted	After Expansion
1	Ethion	Sodium Bromide	124.08	19.4
2	Acephate	Ammonium Sulphate	332.36	1196.5
3	Fipronil	Lean HCl	20.33	4.2
4	Pretilachlor	Lean HCl (20-25%)	200	600

List of Utilities

S.No	Utility	Permitted	Proposed	After Expansion
1	Coal Fired Boilers (TPH)	1 x 5 1 x 3*	---	1 x 5 1 x 3*

		1 x 1.5		1 x 1.5
2	Thermic Fluid Heater - Coal Based (Lac. K.cal/hr)		1 x 6	1 x 6
3	Thermic Fluid Heater - HSD Based (Lac. K.cal/hr)		1 x 2	1 x 2
4	DG Sets (kVA)**	1 x 600 2 x 225 1 x 125	---	1 x 600 2 x 225 1 x 125

** 3 TPH Boiler shall be kept as standby.*

***DG sets will be used during load shut down by TSPDCL*

- ix. The total water requirement is 242 KLD after expansion consisting of 187 KLD fresh water and 55 KLD of recycled water and same shall be met from TSIIC (Industrial supply) in addition to treated wastewater.
- x. The total power requirement will be met from TSPDCL. DG sets of capacity 1 x 600 kva, 2 x 225 kva and 1 x 125 kva are provided to cater to energy requirement during load shut down by TSPDCL.
- xi. No additional boilers are proposed for expansion. Coal will be used as fuel for proposed 1 x 6 Lac . K.cal/hr Thermic fluid heater and HSD for 1 x 2 Lac . K.cal/hr thermic fluid heaters. Consumption of coal is 2.72 TPD, while HSD is 3.47 KLD.
- xii. The sources of air pollution from the plant are existing 5 TPH, 1 x 1.5 TPH coal fired boilers and DG set of 2 x 225 KVA, 1 x 600 KVA and 1 x 125 KVA capacity. It is proposed to establish 6 lac k.cal/hr coal fired and 2 lac k.cal/hr HSD fired thermic fluid heater for proposed expansion. The utilities are provided with stack height based on CPCB formulae, in addition to Bag Filter/Multicone cyclone separator for boilers, thermic fluid heaters as air pollution control equipment.
- xiii. Gaseous emissions from process are Ammonia, Hydrogen Chloride, Sulfur dioxide, Carbon dioxide, Hydrogen. Ammonia, Hydrogen Chloride and Sulfur dioxide emissions are scrubbed in two stage scrubbers and the resultant scrubbing effluent sent to ETP. The other gases are Carbon dioxide which are let out into atmosphere following a standard operating procedure while Hydrogen gas is let out into atmosphere through water column.
- xiv. The effluents are treated in “Zero Liquid Discharge” system. The high TDS effluents after expansion in the order of 40.5 KLD are sent to Stripper followed by MEE, ATFD. The condensate from MEE and ATFD is treated along with LTDS effluent from utility blow downs and domestic wastewater of 19 KLD in biological treatment plant followed by Reverse Osmosis for reuse in cooling towers make-up.

	<p>xv. Solid wastes are generated from process, solvent distillation, wastewater treatment and utilities. The effluent treatment system generates stripper distillate, ATFD salts and ETP sludge. The process operations generate process residue and recycling operation of distillation generates solvent residue and spent mixed solvents. The utilities i.e., coal fired boiler generates ash while DG sets generate waste oil and used batteries.</p> <p>xvi. The stripper distillate, process residue and solvent residue are sent to cement plants for co-incineration based on acceptability. If these wastes are not suitable for co-incineration, the same is sent to TSDF facility. The evaporation salts and ETP sludge are sent to TSDF. Waste oil and used batteries from the DG sets are sent to authorized recyclers. The other solid wastes expected from the unit are containers, empty drums which are returned to the product seller or sold to authorize buyers after detoxification</p> <p>xvii. Capital cost of the project is Rs. 50 crores for proposed expansion.</p> <p>xviii. Nakkavagu stream is at a distance of 8 km in east direction, flowing from north to south, Isnapur cheruvu is at a distance of 0.6 km in east direction. There are no Reserve forests, National parks, sanctuaries and ecologically sensitive areas within the impact area of 10 km. The site is located at a distance of 6.51 Km from the critically polluted area of Patancheru and Bollaram.</p> <p>xix. The baseline study for ambient air quality, surface, ground water quality, noise, ecology and soil quality will be carried out during March 2017 to June 2017.</p> <p>EAC after detailed deliberation has recommended the project with the following additional TOR along with Standard TOR and public hearing, for preparation of EIA/EMP report.</p> <p><u>Additional TOR</u></p> <ol style="list-style-type: none"> Zero Liquid Discharge shall be ensured. Green belt of 10 m width shall be planted along the periphery of the unit. Total 33 % of the area of the unit shall be ensured for green cover with perennial trees. Draft EIA/EMP report shall be submitted to SPCB for conduct of Public hearing. The points raised during the Public hearing/Public consultation shall be properly addressed in the final EIA/EMP report.
21.4.11	<p>Expansion of Chlor-Alkali Plant and inclusion of Synthetic Organic Chemicals manufacturing unit at Sy. No. 132-134 and 137, Saggonda Village, Gopalapuram Mandal, West Godavari District, Andhra Pradesh by M/s. The Andhra Sugars Limited (Chemicals and Fertilizers Division)- Terms of Reference. [IA/AP/IND2/62105/2017, IA-J-11011/83/2017-IA-II(I)].</p> <p>The project proponent and the accredited consultant M/s TEAM labs and Consultants, Hyderabad gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> The proposal is for Expansion of Chlor-Alkali Plant and inclusion of Synthetic Organic Chemicals manufacturing unit at Sy. No. 132-134 and 137, Saggonda Village, Gopalapuram Mandal, West Godavari District, Andhra Pradesh by M/s. The Andhra

Sugars Limited (Chemicals and Fertilizers Division).

- ii. All Chlor-alkali industry (≥ 300 TPD production capacity if a unit located outside the notified industrial area/ estate are listed at S.N. 4(d) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A'. All Synthetic Organic Chemicals Industry located outside the notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).
- iii. The PP has obtained Environmental Clearance for Expansion of Caustic Soda Plant of capacity 400 TPD vide Letter no J-1101/245/2005- IA II (I) dated 08.02.2006. The unit obtained consent for operation vide Letter No. APPCB/VSP/RJY/44/CFO/HO/2016 dated 09.02.2016.
- iv. The Andhra Sugars Limited, Saggonda is proposed to expand manufacturing capacity of existing facility and inclusion of synthetic organic chemicals in existing area of 320 acres with capital investment of Rs. 800 crores. Employment Potential for present proposal: 250 no.s
- v. Expansion includes enhancement of process equipment, storage facility and utilities. The manufacturing capacity is as follows:

S.No.	Product Name	Capacity (TPD)		
		Existing	Proposed	Total after expansion
1.	Caustic Soda	400	400	800
2.	Caustic Potash	--	100	100
3.	Liquid Chlorine	240	4	244
4.	Hydrochloric Acid (33%)	600	400	1000
5.	Caustic Soda Flakes	140	140	280
6.	Hydrogen Gas (bottling)	2.83	1.0	3.83
7.	Liquid Hydrogen	1.0	1.0	2.0
8.	Sodium Hypochlorite	20	20	40
9.	Sulphuric Acid	300	--	300
10.	Poly Aluminum Chloride	90	--	90
11.	Sodium Chlorate	--	60	60
12.	1. Chlorinated Paraffin Wax (52%)	--	20	20
	2. Hydrochloric Acid (33%)	--	30	30
13.	1. Mono Chloro Acetic Acid	--	20	20
	2. Hydrochloric Acid (33%)	--	33	33
14.	Chloro Methanes :	--		
	1. Methyl Chloride		10	10
	2. Methylene Chloride		61	61
	3. Chloroform		56	56
	4. Carbon tetrachloride		7.6	7.6
	5. Hydrochloric Acid (33%)		65.8	65.8

List of Utilities

S.No	Utility	Existing	Proposed	After Expansion
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1	Husk Fired Boilers (TPH)	1 x 15 1 x 10	--	1 x 15 1 x 10
2	Coal/Husk Fired Boiler (TPH)		1 x 25	1 x 25
3	Oil Fired Boiler (TPH)	1 x 6	--	1 x 6
4	Waste Heat Recovery Boiler (TPH)	1 x 15	--	1 x 15
5	Incinerator (Kg/hr)	--	1 x 383	1 x 383
6	DG Sets (KVA)*	1 x 4750 3 x 1000	--	1 x 4750 3 x 1000

** DG sets will be used during load shut down by APTRANSCO*

- vi. The total water requirement increased from 3360 KLD to 9252 KLD after expansion consisting of 8428 KLD fresh water and 824 KLD of recycled water and same shall be met from River Godavari in addition to reuse of treated wastewater.
- vii. The total power requirement will be met from AP TRANSCO and back up DG sets of capacity 1 x 4750 kva and and 3 x 1000 kva are provided to cater to energy requirement during load shut downs.
- viii. Coal/Husk will be used as fuel for proposed 1 x 25 TPH boiler. Consumption of coal is 120 TPD.
- ix. The sources of air pollution from the plant are from proposed 25 TPH Husk/Coal Fired Boiler. Existing sources of air pollution includes 15 TPH and 10 TPH Husk Fired Boiler, 6 TPH Oil Fired Boiler, 15 TPH Waste Heat Recovery Boiler , 4750 KVA DG Set and 3 x 1000 KVA DG Set Capacity. The DG sets are required for emergency power during load shut down. The proposed 25 TPH coal/husk fired boiler will be provided with bag filter as air pollution control equipment.
- x. In chloro-alkali plant the gaseous emissions are chlorine and hydrogen chloride vapours. Due to advancement of control checks and due to membrane cell electrolysis, possibility of chlorine emission to atmosphere is negligible. Scrubbing systems are provided to neutralize sniff gases effectively. Even the dilute chlorine is also being converted to sodium hypochlorite after neutralization with caustic soda at control temperature leading to value addition.
- xi. The effluents are treated in ETP followed by RO plant & R.O. permeate will be utilized for cooling towers makeup & R.O. rejects will be utilized in Brine Saturator to achieve Zero Liquid discharge. Domestic wastewater is sent to sewage treatment plant and treated wastewater is reused for green belt development within plant premises.
- xii. Solid wastes are generated from the process like brine sludge, saturator mud, ETP sludge and Alumina sludge will be disposed in existing lined land fill facility. Hazardous waste of spent catalyst will be sent to TSDF, Waste oils are burned in heating furnace in existing plant. Sulphur sludge from sulphuric acid manufacturing is being utilized in Single Superphosphate plant at Kovvur as filler. Gypsum will be sold to Cement Industries / sent to land fill within the premises.
- xiii. The effluents are treated and reused for cooling towers makeup. Domestic wastewater is sent to sewage treatment plant and treated wastewater reused for green belt development within plant premises
- xiv. Brine sludge, saturator mud, ETP sludge and Alumina sludge will be disposed in

existing lined land fill facility. Hazardous waste - spent catalyst will be sent to TSDF, Waste oils burned in heating furnace in existing plant. Sulphur sludge is being utilized in Single Superphosphate plant at Kovvur as filler. Gypsum will be sold to Cement Industries / sent to land fill within the premises.

- xv. River Godavari is towards east of the site at a distance of 4 Km from the site flowing from north to south. Kovvada Canal Flows from SW to NE direction of the site at a distance of 5 km in north direction. Vinjaram Reserved forest is at a distance of 8.5 Km towards NE Direction of the site. Polavarm Reserved forest is at distance of 7.4 Km towards NW direction of the site. There are no ecologically sensitive areas like national parks, sanctuaries within 10 km radius of the site.
- xvi. The baseline study for ambient air quality, surface, ground water quality, noise, ecology and soil quality will be carried out during March 2017 to June 2017.
- xvii. Existing site has sufficient storage facility for safe handling of raw materials. All solid raw materials shall be stored in marked areas with proper identification. Liquid raw materials and solvents will be stored according to material compatibilities and flammability. Adequate fire fighting facilities shall be provided as per NFPA norms. A separate tank farm area shall be provided for storing liquid raw materials, especially solvents with high inventory and also for toxic, corrosive chemicals. Dykes shall be provided to ensure safety in case of tank failure. There is no additional storage of Chlorine envisaged, as it is proposed to manufacture down stream products using chlorine as raw material.

EAC after detailed deliberation has recommended the project with the following additional TOR along with Standard TOR and public hearing, for preparation of EIA/EMP report.

Additional TOR

- i. Zero Liquid Discharge shall be ensured.
- ii. Green belt of 10 m width shall be planted along the periphery of the unit. Total 33 % of the area of the unit shall be ensured for green cover with perennial trees. 20000 plants shall be planted in the area in a span of five years.
- iii. Draft EIA/EMP report shall be submitted to SPCB for conduct of Public hearing. The points raised during the Public hearing/Public consultation shall be properly addressed in the final EIA/EMP report.
- iv. Risk Assessment Plan shall be submitted.
- v. A well equipped environment management cell shall be formed with a regular post of Environmental Manager having post graduate qualification in person in Environmental Science/ Environmental Engineering.
- vi. Revised water balance shall be submitted.
- vii. Loss of water in cooling water and boiler shall be reduced with induction of better technology.
- viii. PP shall submit the copy of certified compliance report from the Regional Office of Ministry.

21.4.12 Establishment of Bulk Drug & Intermediates Manufacturing Unit at Sy. No. 50 (Part), Bommaramaram Village & Mandal, Yadadri District, Telangana by M/s. AP Explochem Pvt. Ltd.,- Terms of Reference [IA/TG/IND2/62703/2017, IA-J-11011/66/2017-IA-II(I)]

The project proponent and the accredited consultant M/s TEAM labs and Consultants, Hyderabad gave a detailed presentation on the salient features of the project and informed that:

- The proposal is for Establishment of Bulk Drug & Intermediates Manufacturing Unit at Sy. No. 50 (Part), Bommaramaram Village & Mandal, Yadadri District, Telangana by M/s. AP Explochem Pvt. Ltd.,
- All Synthetic Organic Chemicals Industry located outside the notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).
- The total area of the site is 100 acres. Employment Potential is 400 nos. The capital cost for the proposed project is Rs. 75 crores.
- The manufacturing capacity is as follows:

S.No	Name of the Product	CAS No	Capacity	
			Kg/Day	TPM
1	Alendronate Sodium	121268-17-5	800	24
2	Aripiprazole	851220-85-4	800	24
3	Atorvastatin Calcium	344423-98-9	135	4
4	Azacitidine	320-67-2	400	12
5	Bicalutamide	90357-06-5	300	9
6	Bortezomib	179324-69-7	50	2
7	Candesartan	139481-59-7	320	10
8	Capacitabine	154361-50-9	1000	30
9	Carvedilol	72956-09-3	1000	30
10	Celecoxib	169590-42-5	1000	30
11	Cetirizine HCl	83881-52-1	600	18
12	Citalopram HBr	59729-32-7	350	11
13	Clopidogrel Bi Sulphate	135046-48-9	350	11
14	Disodium Pamidronate	57248-88-1	450	14
15	Divalprox Sodium	76584-70-8	500	15
16	Docetaxal Trihydrate	114977-28-5	35	1
17	Domperidone	57808-66-9	450	14
18	Donepezil HCl	120011-70-3	350	11
19	Dronedarone HCl	141625-93-6	800	24
20	Duloxetine HCl	136434-34-9	470	14
21	Esomeprazole Mg	217087-09-7	1000	30
22	Ezitimibe	163222-33-1	500	15
23	Febuxostat	144060-53-7	650	20
24	Fexofenadine Hydrochloride	153439-40-8	280	8
25	Finasteride	98319-26-7	100	3
26	Fluconazole	86386-73-4	100	3

27	Fluxetine	54910-89-3	1000	30
28	Gemcitabine HCl	95058-81-4	350	11
29	Glimipiride	93479-97-1	700	21
30	Glipizide	29094-61-9	360	11
31	Ibandronate Na	138926-19-9	700	21
32	Lamotrigine	84057-84-1	700	21
33	Lansoprazole	103577-45-3	250	8
34	Levetiracetam	102767-28-2	1000	30
35	Levo Cetirizine HCl	130018-87-0	300	9
36	Levofloxacin	100986-85-4	750	23
37	Loratadine	79794-75-5	300	9
38	Losortan Potassium	124750-99-8	700	21
39	Montelukast Na	158966-92-8	5000	150
40	Omeprazole	73590-58-6	800	24
	Total - Worst Case 20 Products on campaign basis		20000	600

List of Utilities

S.No	Utility	Permitted
1	Coal Fired Boilers	2 x 10 1 x 10* 1 x 5*
2	DG Sets (KVA)**	2 x 2000 4 x 1000

* Standby Boiler

**DG sets will be used during load shut down

- v. The required water shall be drawn from ground water sources in addition to reuse of treated wastewater. The total water requirement is in the order of 832.4 KLD consisting of 480.4 KLD fresh water and balance of 352 KLD is recycled water.
- vi. The total power requirement will be met from TSPDCL. DG sets of capacity 2 x 2000 kva and 4 x 1000 kva are proposed to cater energy requirement during load shut down by TSPDCL.
- vii. Coal will be used as fuel for proposed 3 x 10 TPH and 1 x 5 TPH boilers. Consumption of coal is 96 TPD. It is proposed to provide bag filters as air pollution control equipment.
- viii. The sources of air pollution from the plant are proposed 2 x 10TPH Coal fired boiler and standby 1 x 10 TPH and 1 x 5 coal fired boilers and proposed DG sets of 2 x 2000 KVA and 4 x 1000 KVA capacity. The utilities are provided with stack height based on CPCB formulae, in addition to Bag Filter for boilers as air pollution control equipment.
- ix. Gaseous emissions from process are Hydrogen Chloride, Sulfur dioxide, Carbon dioxide and Hydrogen. HCl and SO₂ are scrubbed in two stage scrubbers. Water is used as scrubbing media in primary scrubbers and caustic in secondary scrubbers. Sodium Chloride, Sodium bicarbonate solutions are sent to ETP. Hydrogen, Carbon dioxide gases are let out into atmosphere by following a standard operating procedure. Hydrogen gas is let out into atmosphere through water column.

- x. The effluents are treated in “Zero Liquid Discharge” system. The high TDS effluents after expansion in the order of 58 KLD are sent to Stripper followed by MEE, AFTD. The condensate from MEE and AFTD is treated along with LTDS effluent from utility blow downs and domestic wastewater of 39.5 KLD in biological treatment plant followed by Reverse Osmosis for reuse in cooling towers, boilers make-up and scrubbers.
- xi. Solid wastes are generated from process, solvent distillation, wastewater treatment and utilities. The effluent treatment system generates stripper distillate, AFTD salts and ETP sludge. The process operations generate process residue and recycling operation of distillation generates solvent residue and spent mixed solvents. The utilities i.e., coal fired boiler generates ash while DG sets generate waste oil and used batteries.
- xii. The stripper distillate, process residue and solvent residue are sent to cement plants for co-incineration based on acceptability. If these wastes are not suitable for co-incineration, the same is sent to TSDF facility. The evaporation salts and ETP sludge are sent to TSDF. Waste oil and used batteries from the DG sets are sent to authorized recyclers. The other solid wastes expected from the unit are containers, empty drums which are returned to the product seller or sold to authorize buyers after detoxification.
- xiii. The effluents are treated and reused for cooling towers, boilers makeup and scrubbers. The organic solid wastes which have calorific value are sent to cement plants for co incineration, while the other sludges and salts are sent to TSDF. The recyclable wastes of waste oil and used batteries are sent to authorized recyclers.
- xiv. Shamirpet vagu, a seasonal stream flowing from northwest to northeast is passing at a distance of 4 km from the plant site in north direction. Bibinagar chervu is at a distance of 9.54 km in SE direction. The nearest Air port is Shamshabad located at a distance of 45.8 km in SW direction. There are four reserve forests in the study area; Nagininepalli RF at a distance of 3.5 km in SE direction, Kondamadugu RF at a distance of 3.6 km in SE direction, Kisaragutta RF at a distance of 3.4 km in E direction and Keshavpur RF at a distance of 7.2 km in NW direction. There are no national parks or sanctuaries and ecologically sensitive areas within the impact area of 10 km.
- xv. The baseline study for ambient air quality, surface, ground water quality, noise, ecology and soil quality will be carried out during March 2017 to June 2017.

EAC after detailed deliberation has recommended the project with the following additional TOR along with Standard TOR and public consultation, for preparation of EIA/EMP report.

Additional TOR

- i. Zero Liquid Discharge shall be ensured.
- ii. Green belt of 10 m width shall be planted along the periphery of the unit. Total 33 % of the area of the unit shall be ensured for green cover with perennial trees.
- iii. Draft EIA/EMP report shall be submitted to SPCB for conduct of Public hearing. The points raised during the Public hearing/Public consultation shall be properly addressed in the final EIA/EMP report.
- iv. Explore the possibility to use air cooled condenser in place of cooling tower to reduce the quantity of ground water extraction.

[illegible]

Discarded Containers/ Bags/ Liners	33.1	0.5	2	2.5	Collection, storage, transportation, reuse/sale to authorize vendors
Used oil	5.1	--	0.01	0.01	Collection, storage, transportation, reuse/sale to authorize vendor
ETP Sludge	35.1	--	10	10	Collection, storage, transportation and dispose common TSDF site

The list of existing & proposed products are :

EXISTING PRODUCTS

SR. NO.	EXISTING PRODUCTS	Production Capacity (MT/MONTH)		
		EXISTING QUANTITY	ADDITIONAL QUANTITY	TOTAL QUANTITY
1	Sodium Nitrite	100	--	100
2	Sodium Nitrate			
3	Potassium Nitrate			
4	Sodium Sulphate			
5	Sodium Bisulphite			
6	Sodium Sulphite			
7	Magnesium Sulphate			
8	Manganese Sulphate			
9	Calcium Chloride			
10	Sodium thiosulphate			
11	Copper Sulphate	25	--	25

	Total	125	--	125
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PROPOSED PRODUCTS:

SR. NO.	Proposed	Production Capacity (MT/MONTH)		
		Existing Quantity	Additional quantity	Total Quantity
1	Acid Orange-7	--	11	11
2	Acid Red-88			
3	Acid Red-18			
4	Acid Yellow-36			
5	Acid Blue-113			
6	Acid Black-1			
7	Direct Orange-26			
8	Direct Red-31			
9	Direct Yellow-4			
10	Direct Violet-9			
11	Direct Green-8			
12	Direct Black-29			
13	Reactive Yellow-7 (Yellow M-GR)			
14	Reactive Blue-4 (Brilliant Blue M-R)			
15	Benzidine Yellow-13G (Pigment Yellow)			
16	Pigment Lake Red-C			
17	Sulphanilic Acid			
18	Salicylic Acid			
19	Hydrazobenzene			
	TOTAL	--	11	11
	GRAND TOTAL (EXISTING+PROPOSED)	125	11	136


	<p>EAC has deliberated on the proposal. EAC has recommended for exemption of Public hearing as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site located in the Notified industrial area. EAC after detailed deliberation has recommended the project with the following additional TOR along with Standard TOR for preparation of EIA/EMP report.</p> <p><u>Additional TOR</u></p> <ol style="list-style-type: none"> Zero Liquid Discharge shall be ensured. Green belt of 5 m shall be planted along the periphery of the unit. Total 33 % of the area of the unit shall be ensured for green cover with perennial trees.
21.4.14	<p>Expansion of Bulk Drug & its Intermediates in the existing unit at Plot No. 3014-3015, Phase – III, GIDC Panoli, Dist: Bharuch, Gujarat by of M/s. Mahrshee Laboratories Pvt. Ltd. [IA/GJ/IND2/62346/2017, IA-J-11011/90/2017-IA-II(I)]</p> <p>The project proponent and the accredited consultant M/s Aqua-Air Environmental Engineers Pvt. Ltd., Surat gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> The proposal is for Expansion of Bulk Drug & its Intermediates in the existing unit at Plot No. 3014-3015, Phase – III, GIDC Panoli, Dist: Bharuch, Gujarat by of M/s. Mahrshee Laboratories Pvt. Ltd. All Synthetic Organic Chemicals Industry located in a notified industrial area/estate are listed at S.N. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category ‘B’. However, considering the General Condition, i.e location of Industry within 5 km distance from the Critically Polluted Area (Ankleshwar), it is considered under Category ‘A’ and is appraised at Central Level by Expert Appraisal Committee (EAC). Existing land area is 2000 m². No additional land will be used for proposed expansion. Industry will develop Greenbelt in an area of 33% i.e. 200 m² out of 2000 m² of area of the project. The estimated project cost is Rs. 750 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 245 Lakhs and the recurring cost (operation & maintenance) will be about Rs. 50 Lakhs per annum. Industry purposes to allocate Rs. 1 Lakhs @ 2.5 % towards Corporate Social Responsibility. It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Narmada River is flowing at a distance a distance of 7 km in N direction. Ambient air quality monitoring will be carried out at 8 locations during March-2017 to May-2017. Total water requirement will be 23.8 m³/day of which fresh water requirement of 23.8 m³/day and will be met from GIDC Water Supply. Treated effluent of 18.43 KL/Day will be sent to CETP, Panoli for further treatment & High COD & TDS 1.67 KL/Day will be sent to Common Spray Dryer (M/s. PETL). Power requirement will be 125 HP (Existing: 72 HP & Proposed: 53 HP) and will be met from DGVCL. Existing unit has Steam boiler. No APCM is required. Scrubber

shall be installed to prevent air pollution from process vents.
viii. The Solid waste / Hazardous waste generation and its management is as below:

Sr. No	Type of Waste	Category	Generation		Mode of Treatment & Disposal
			Existing	Total Proposed	
1.	ETP Sludge	35.3	0.04 MT/Month	0.5 MT/Month	Collection, Storage, Transportation & Sent to TSDF site of M/s. PSWML, Panoli or M/s. BEIL, Ankleshwar
2.	Used Oil	5.1	-	0.3 Lit/Month	Collection, Storage, Transportation & Sale to registered re-processor or used for lubrication within premises
3.	Spent Carbon	28.3	-	2.5 MT/Month	Collection, Storage, Transportation & co-processing in cement industries or Send to M/s. BEIL, Ankleshwar for incineration
4.	Discarded Containers	33.1	15 Nos/Month	100 Nos/Month	Collection, Storage, Transportation, Decontamination & given to registered vendors
5.	Discarded Liners	33.1	22 Nos/Month	170 Nos/Month	Collection, Storage, Transportation, Decontamination & given to registered vendors
6.	Distillation Residue	36.1	0.00083 MT/Month	10 MT/Month	Collection, Storage, Transportation & Sent to Common Incineration of M/s. BEIL, Ankleshwar or given for Co-Processing in Cement Industries
7.	Ammonium Sulphate	-	-	25 MT/Month	Collection, Storage & Sold to re-processors or end users
8.	Sodium Bromide	-	-	15 MT/Month	

9.	Sodium Sulfite	-	-	45 MT/Month	
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The list of existing & proposed products are:

Sr. No.	Name of Product	Production Capacity (MT/Month)	
		Existing	Total After Proposed Expansion
1	Metoclopramide HCl	0.5	--
2	Cyproheptadine HCl	0.1	--
3	Amitryptiline HCl	0.2	--
4	Chlorpheniramine Maleate	2.5	 50
5	Diphenhydramne HCl	1	
6	Pheniramine Maleate	-	
7	Cetirizine 2HCl	-	
8	Miconazole	-	
9	Miconazole Nitrate	-	
10	Econazole Nitrate	-	
11	Dexchlorpheniramine Maleate	-	
12	Brompheniramine Maleate	-	
13	Domperidone	-	
14	Dimethyl amino ethyl chloride HCL	-	
15	Ondansetron HCL	-	
16	α -Phenyl-2-Pyridyl Acetonitrile	-	
17	α -Phenyl-2-Pyridyl Acetamide	-	
Total		4.3	50

EAC has deliberated on the proposal. EAC has recommended for exemption of Public hearing as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site located in the Notified industrial area. **EAC after detailed deliberation has recommended the project with the following additional TOR along with Standard TOR for preparation of EIA/EMP report.**

Additional TOR

- Zero Liquid Discharge shall be ensured.
- PP shall submit the revised layout plan incorporating green belt area
- Green belt of two layer of native perennial plant species with 5 m/10 m width shall be planted inside the periphery of the unit. Total 33 % of the area of the unit shall be ensured for green cover with perennial trees.

21.5 Any other

21.5.1	Expansion of Dye Intermediates manufacturing unit at plot no. 166, 169 at Village Indrad, Tehsil Kadi, District Mehsana, Gujarat by M/s AksharChem India Ltd.- reg. Amendment in EC. [IA/GJ/IND2/27624/2014, J-11011/552/2010-IA.II(I)]
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	<p>1. The project proponent and the accredited consultant M/s San Envirotech Pvt. Ltd, Ahmedabad gave a detailed presentation on the salient features of the project and informed that the project was accorded Environmental Clearance by MoEF&CC vide letter F. No. J-11011/552/2010-IA II (I) dated 17th October, 2016 for expansion of Dyes Intermediates manufacturing at plot no. 166, 169, Village: Indrad, Taluka: Kadi, Dist. Mehsana, Gujarat. Before implementation of the project, utilization of Spent Sulphuric Acid generated from production of Vinyl Sulphone and its derivatives are developed into H Acid production hence following changes is required in said project:</p> <p>a. <u>Removal of Single Super Phosphate (SSP) from the product profile of granted EC.</u></p> <p>(i) PP has informed that the purpose to manufacture of Single Super Phosphate in our premises is to utilize spent sulphuric acid generated from VS and its derivatives. Now, successful solution to utilize total generated spent sulphuric acid from Venyl Sulphone and its derivatives into other product H-Acid for which MoEF&CC has accorded EC along with other products. Now, no need to produce the Single Super Phosphate for utilization of spent sulphuric acid.</p> <p>(ii) Based on the detailed calculation of mass balance, 3493.38 Spent H₂SO₄ to be generated from Venyl Sulphoone and its derivatives will be totally utilized in the production of H-acid and around 525.12 MTPM Spent H₂SO₄ additionally need to purchase from market.</p> <p>2. It was reported that due to the proposed change, there will not be any change in wastewater generation. 10 KLD water consumption will be reduce due to less use of water in SSP scrubber. Due to the proposed change, point source of air emission will be reduced due to drop off SSP along with reduction in fugitive emission. After drop of SSP in product profile of EC, vent attached to SSP plant & Mill/grinder will be reduced. Reduce the fugitive emission due to less handling of Rock Phosphate around 4885 Mt/Month. No generation of hazardous/solid waste during the process of Single Super Phosphate and resulted to no change envisage in generation of Hazardous/solid waste due to drop off SSP. Around 450 Kwh proposed energy demand will be reduce due to drop off SSP production. No need of fuel for production of Single Supper Phosphate hence no change envisage reducing fuel consumption. Further PP has also requested to include additional survey nos. into the granted EC.</p> <p>3. It was informed that some survey numbers and land area are missed in the EC. It is requested to include survey no/ Plot No. as 154/1, 154/2, 155, 159, 162, 163, 166, 169. During EC application, PP have applied with total land 40000 sqm with 2 survey nos. 166 & 169 of Indrad Village. It is informed that there are total 8 survey numbers with total land area 40685 sqm.</p> <p>EAC after detailed deliberation has recommended for amendment in the existing EC with the Removal of Single Super Phosphate (SSP) from the product profile of granted EC and to include additional survey nos. and total land area in the EC.</p>
21.5.2	Production capacities and Boiler capacities in APIs manufacturing unit located at Sy No.733

	<p>Mandollagudem (V), Choutuppal (M), Yadadri District (Formerly Nalgonda District), Telangana State by M/s Vision Drugs Pvt. Ltd.-Amendment in EC. [IA/TG/IND2/62130/2007, J-11011/138/2007-IA II (I)].</p> <p>The project proponent gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> The proposal is for increase in production capacity from 81.6 TPA to 938.4 TPA and for changes in boiler and DG set. The PP has obtained EC for the existing unit vide No. J-11011/38/2007-IA.II(I) dated 07th August 2007. PP has requested for amendment in the existing EC with increase in production and changes in boiler. <p>EAC has deliberated on the proposal. EAC was of the view that the changes proposed by the PP in the existing project profile comes under category of expansion of existing project; hence, EAC after detailed deliberation recommended that the PP should make a fresh online application for TOR and follow the EC process as per EIA Notification, 2006. Accordingly EAC recommended the Ministry for delisting from the list of pending projects.</p>
21.5.3	<p>Expansion of Bulk Drug Active Pharmaceutical Ingredients (APIs) Manufacturing Unit at Sy. No. 543 A & 544 A at SeetaVaniGudram, Pochampally, Nalgonda by M/s. Saiteja Drugs and Intermediates Pvt Ltd.- Extension in EC [IA/TG/IND2/62138/2007, J-11011/4501/2006-IA II(I)].</p> <p>The project proponent and their consultant M/s KKB Envirocare Consultant Pvt. Ltd, Hyderabad gave a detailed presentation on the salient features of the project and informed that the Ministry has issued EC for the unit vide no. J-11011/450/2006-IA.II(I) dated 22.08.2007. However, due to financial constraints the commencement of project has been delayed and requested for Extension in validity of EC.</p> <p>EAC has deliberated on the proposal. EAC noted that the validity of the EC has been expired. EAC has suggested that the PP shall apply online for fresh TOR as per EIA Notification, 2006. Accordingly EAC recommended the Ministry for delisting from the list of pending projects.</p>
21.5.4	<p>Bulk Drug Manufacturing Unit (APIs) at Sy No. 455-A, 455-AA, 455-E, 455-EE, 453, 454, 457, 458 & 459, Chandampet (V) Shankarampet(M), Medak District, Telangana by M/s MSN Life Sciences Private Limited Unit II (Formerly Apithecary Pharma Pvt. Ltd.)-Amendment in EC [IA/TG/IND2/59652/2009, J-11011/247/2008.-IA.II(I)].</p> <p>The project proponent and their consultant M/s KKB Envirocare Consultant Pvt. Ltd, Hyderabad gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> The proposal is for amendment in the existing EC which was issued by this Ministry to vide letter no. J-11011/247/2008-IA.II(1) dated 17.03.2009 for a production capacity pf

210 TPA (4 product out of 18 product at a time).

- ii. It is informed that the proposal is for addition of land and boilers. There is no change in the production capacities.
- iii. Amendment sought for the following

S.No.	Particular	Quantity	
		Existing	Additional Proposed
1	Land	7.2 Ha	7.2 Ha
2	Water Requirement	101.1KLD	125 KLD
3	Boilers Coal fired	5 & 1 TPH	2 x 10 TPH
4	Coal consumption	24 TPD	80 TPD
5	Waste water	40.5 KLD	15KLD

- iv. Source of water is Ground water & Out Side Tankers.
- v. Multi-cyclones separator followed by bag filters will be provided to the 2 x 10 TPH Coal Fired Boilers to control particulate emissions within permissible limits.
- vi. Additional effluent generation from boilers blow down as LTDS/ LCOD effluent and will sent to ETP-ZLD within the premises for further treatment.
- vii. Boiler ash will be sent to cement brick manufacturers.

EAC has deliberated on the proposal. **EAC after detailed deliberation has recommended the project for amendment in the existing EC with the following specific conditions in addition to the specific and general conditions in the existing EC.**

Specific conditions:

- i. Zero Liquid Discharge shall be ensured.
- ii. Continuous online (24x7) monitoring to be installed. Data to be uploaded on company's website and provided to the respective RO of MEF&CC, CPCB and SPCB.
- iii. Multi-cyclones separator followed by bag filters shall be provided to the 2 x 10 TPH Coal Fired Boilers to control particulate emissions within permissible limits.
- iv. Additional effluent generation from boilers blow down as LTDS/ LCOD effluent and shall be sent to ETP-ZLD within the premises for further treatment.
- viii. Boiler ash shall be sent to cement brick manufacturers.

21.5.5 **Proposed Carbon black Plant(1,500,000MTPA) and Captive Power Plant (45MW) of M/s Hi-Tech Carbon at Village Menakur, TalukaNaidupeta, District SPS Nellore, Andhra Pradesh- Extension of validity of TOR [IA/AP/IND2/62470/2013, J 11011/166/2013-IA-II (I)]**

The project proponent gave a detailed presentation on the salient features of the project and informed that:

- i. PP has obtained TOR for the project vide letter dated 14.02.2014.

	<p>ii. PP has also got an extension for another year of TOR vide letter dated 14.03.2016.</p> <p>iii. As the market for carbon black is unfavourable, the viability of starting the project requires more time.</p> <p>iv. Considering the same, PP has requested for extension of validity of TOR for another two year.</p> <p>EAC has deliberated on the proposal. EAC noted that TOR validity has already been extended One time; hence, no further extension can be given. EAC suggested the PP to withdraw the current proposal and submit a fresh proposal for TOR.</p>
21.5.6	<p>Expansion of Bulk Drugs and Intermediates Manufacturing Unit at Sy. No. 99, 101-109, Dasaigudem Village, Suryapet Mandal, and District, Telangana by M/s. Suven Life Sciences Ltd – Extension of TOR [IA/TG/IND2/62206/2013, J-11011/340/2013-IA II (I)]</p> <p>The project proponent gave a detailed presentation on the salient features of the project and informed that the unit obtained the terms of reference vide letter no. J-11011/340/2013-IA II (I) dated 01.05.2014. There was a delay in completing the public hearing, and hence sought extension of TOR validity.</p> <p>EAC has considered the request of PP for extension of TOR for completing the public hearing process. EAC has recommended for extension of validity of TOR till May, 2018.</p>

28th March, 2017 (Day 2)

21.6 Consideration of Proposals: (Environmental Clearance)

21.6.1	<p>Laying of 340 KMs (12.75”) pipeline with carrying capacity of 800 TMTA from Jaipur (Rajasthan) to Panipat (Haryana) by M/s. Indian Oil Corporation Ltd. (IOCL) – Environmental Clearance [IA/HR/IND2/31741/2015, J-11011/291/2015-IA II (I)]</p> <p>The Project Proponent and the accredited consultant M/s Mantec Consultants Pvt. Ltd., New Delhi gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> The project proposal is for Laying of 340 KMs (12.75”) pipeline with carrying capacity of 800 TMTA from Jaipur (Rajasthan) to Panipat (Haryana) by M/s. Indian Oil Corporation Ltd. (IOCL). All Oil & gas transportation pipe line (crude and refinery/ petrochemical products), passing through national parks /sanctuaries/coral reefs /ecologically sensitive areas including LNG Terminal are listed at S.N. 6(a) of Schedule of Environmental Impact Assessment (EIA) Notification under Category ‘A’ and is appraised at Central Level by Expert Appraisal Committee (EAC). The proposed pipeline passes through/near Nahargarh, Wildlife sanctuary (Rajasthan) (1.5 Km), Jamva Ramgarh Wildlife sanctuary (Rajasthan)(14 Km) and Bhindawas Wildlife Sanctuary (Haryana) (8.3 km). The project proposal was considered by the Expert Appraisal Committee (Industry-2) in
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	<p>its 3rd EAC meeting held during 18-19th January, 2015 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 05th March, 2016 and an amendment to the TOR has been issued vide letter dated 30th September, 2016.</p> <p>v. The proposed project envisages transportation of Naphtha from Koyali refinery to Panipat refinery through existing Koyali-Sanganer Pipeline (KSPL) and thereafter laying a new 340 km long 12.75" dia pipeline. To meet the annual requirement of Naphtha at Panipat Naphtha Cracker Plant (PNCP) to a tune of 2530 TMT, naphtha available at Panipat refinery is 1230 TMT plus Naphtha moved from Mathura to Panipat is 420 TMT, so the remaining quantity of 880 TMT of naphtha will be met from Koyali refinery.</p> <p>vi. Pipeline being a closed loop system, no gaseous, liquid, solid and hazardous wastes will be generated during construction and operation phase of the pipeline.</p> <p>vii. As the pipeline is laid 1 to 1.5 m below the ground level and is completely closed system, so no significant impact on environment is envisaged. Land is completely restored after pipe laying.</p> <p>viii. The Capital cost of the project is Rs 611.53 crore.</p> <p>ix. Ambient air quality survey was carried out at 30 locations from December 2015-February 2016. Study area for baseline data generation and collection is the area falling within 10 km radius from the Terminal/station and 500m along the pipeline. The baseline data indicates the concentrations as: RPM ($61\mu\text{g}/\text{m}^3$- $98\mu\text{g}/\text{m}^3$), SO₂ ($7\mu\text{g}/\text{m}^3$- $31\mu\text{g}/\text{m}^3$), NO_x ($16\mu\text{g}/\text{m}^3$-$48\mu\text{g}/\text{m}^3$). The resultant concentrations of Pollutants at all locations are well within the NAAQS standard limits.</p> <p>x. It is informed that detailed hazard identification and risk analysis study was carried out for the proposed project. Risk from the pipeline is below the ALARP region i.e 10^{-6} per year (one in 1 million/years).</p> <p>xi. It is reported that there will be little impact during construction phase in agricultural land. Proper restoration of land is carried out after laying the pipelines. No impact on air, water flora and fauna has been envisaged. Adequate compensation for use of land and crops is disbursed to the affected farmers as per the provisions of Petroleum and Mineral Pipelines Act.</p> <p>xii. It is reported that Disaster management plan has been prepared for the proposed project and has been submitted.</p> <p>xiii. Nahargarh Wildlife Sanctuary (Rajasthan) is situated at 1.5 km from the project site. Application for wildlife clearance has been submitted vide letter no CONST/ JP / JPNPL /ENGG / 105.0/001 to the D.C.F,Jaipur, Rajasthan dated 25.07.2016 and the application is now with SC NBWL. PP further letter dated 29.03.2017 has informed that the SC NBWL in its 41st meeting held on 02.03.2017 has recommended the proposal. PP has also submitted the copy of the recommendations of SC NBWL issued vide Ministry's No. 6-13/2017-WL (41st meeting) dated 28.03.2017.</p> <p>xiv. Due to declaration of ESZ of Bindwas Wildlife Sanctuary (Haryana), the project is situated outside the ESZ (Eco-Sensitive Zone) of Bindwas WLS and hence no wildlife clearance is required for this WLS.</p> <p>xv. Public hearing for the proposed project has been conducted on 29.11.2016 by Rajasthan State Pollution Control Board. The issues raised were distance residential house construction, size of tree plantation, provision of compensation, etc.</p>
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EAC has deliberated on the proposal and the public hearing report. EAC has noted that the proposal has been considered under category A, as the project passes through the Eco-sensitive area of Nahargarh Wildlife Sanctuary (Rajasthan). EAC has also noted that RSPCB has conducted the public hearing in the area and the issues raised during the public hearing have been properly addressed by the PP in the final EIA/EMP report. EAC has also considered the validity of the baseline data conducted during December 2015-February 2016 and accepted the data. EAC noted that the resultant concentrations of Pollutants at all locations are well within the NAAQS standard limits. EAC has desired that the PP shall submit a five year plan for CSR (@ 2 % of project cost) incorporating Drinking water (RO) to schools, computer facility to Schools/colleges and solar panel to school/college/health centres, in the villages where the pipeline is passing. PP shall also maintain the same. PP vide letter dated 29.03.2017 has submitted the five plan in accordance with the EAC's observations.

EAC after detailed deliberation has recommended the project for environmental clearance, with the following specific and other general conditions.

Specific Conditions

- i) NBWL permission shall be obtained.
- ii) Foest clearance, if applicable, for the forest land involved in the pipeline project shall be obtained.
- iii) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- iv) The project authority i.e. **M/s. Indian Oil Corporation Ltd. (IOCL)** shall ensure restoration of the Right of Way to preconstruction level as soon as construction activity completed. To ensure prevention of soil erosion, backfilled areas should be properly compacted.
- v) The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas shall be governed by ASME/ANSI B 31.8/B31.4 and OISD standard 141.
- vi) Annual safety audit shall be carried out for the initial three years by an independent agency and report submitted to this Ministry for ensuring the strict compliance of safety regulations on operation and maintenance.
- vii) The construction of pipeline particularly at the river and stream crossing shall be done during dry seasons to avoid disturbance of breeding seasons and soil erosion. The riverbed, embankments and / dykes shall be restored adequately after installation of crossings.
- viii) Pipeline wall thickness and minimum depth of burial at river crossings and

	<p>casings at rails, major road crossings shall be in conformity with ANSI/ASME requirements.</p> <p>ix) The company shall follow horizontal drilling technique for laying of pipeline while passing through major rivers.</p> <p>x) The project authorities shall install SCADA system with dedicated optical fiber based telecommunication link for safe operation of pipeline and Leak Detection System. Additional sectionalizing valves in the residential areas and sensitive location shall be provided to prevent the leaking of gas going to the atmosphere in the event of pipeline failure. Intelligent pigging facility shall be provided for the entire pipeline system for internal corrosion monitoring. Coating and impressed current cathodic protection system shall be provided to prevent external corrosion.</p> <p>xi) The project authorities shall patrol and inspect the pipeline regularly for detection of faults as per OISD guidelines and continuous monitoring of pipeline operation by adopting non-destructive method(s) of testing as envisaged in the EMP. Pearson survey and continuous potential survey shall be carried out at regular intervals to ensure the adequacy of cathodic protection system.</p> <p>xii) Necessary approvals from Chief Controller of Explosives must be obtained before commission of project. Requisite On-site and Off-site Disaster Management Plans shall be prepared and implemented. It is necessary that integrated DMP should be in place as the pipeline is passing through four Districts.</p> <p>xiii) The acoustic chambers/barriers should be provided for individual units wherever feasible in the compressor stations.</p> <p>xiv) The workers camp should have arrangement for safe drinking water, hygienic kitchen and sanitation facilities. The wastewater should be properly treated before disposal.</p> <p>xv) The company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities.</p> <p>xvi) PP shall spend 2 % of project cost under CSR activities for Drinking water (RO) to schools, computer facility to Schools/colleges and solar panel to school/college/health centres, in the villages where the pipeline is passing. PP shall also maintain the facilities.</p>
21.6.2	<p>Augmentation of Koyali- Sanganer Pipeline by augmenting pumping station at Vadodara, Pali (4.6 MMTPA to 6.0 MMTPA) by M/s Indian Oil Corporation Ltd. (IOCL).- Environmental Clearance [IA/GJ/IND2/33820/2015, J-11011/02/2016-IA II (I)]</p> <p>The Project Proponent and the accredited consultant M/s Mantec Consultants Pvt. Ltd., New Delhi gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> The project proposal is for Augmentation of Koyali- Sanganer Pipeline by augmenting pumping station at Vadodara, Pali (4.6 MMTPA to 6.0 MMTPA) by M/s Indian Oil Corporation Ltd. (IOCL). All Oil & gas transportation pipe line (crude and refinery/ petrochemical products),

	<p>passing through national parks /sanctuaries/coral reefs /ecologically sensitive areas including LNG Terminal are listed at S.N. 6(a) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).</p> <p>iii. The PP has obtained EC for the existing unit vide letter no. J-11011/66/2001-IA.II(I) dated 23rd December, 2002.</p> <p>iv. The proposed project is expansion of the existing project and hence the EC is mandatory.</p> <p>v. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 15th meeting held on 10th December, 2016 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 31st January, 2017.</p> <p>vi. It is informed that the PP is planning to augment Koyali-Sanganer Pipeline (KSPL) by augmenting pumping stations at Vadodara, Pali and other allied facilities for enhancing the capacity of KSPL upto 6.0 MMTPA through delivery at various ToPs up to Sanagner and further by pumping Naphtha from Sanganer to Panipat.</p> <p>vii. In KSPL augmentation capacity of the system would be changed and enhanced up to 6 MMTPA from existing 4.6 MMTPA.</p> <p>viii. Naphtha will be required for the Naphtha Cracker Plant. The pre-treated naphtha will be utilized as feed for both Paraxylene (PX) and Naphtha Cracker Plant at Panipat Refinery. The annual requirement of naphtha at Panipat refinery for Paraxylene (PX) unit and Panipat Naphtha Cracker Plant (PNCP) is about 500 TMT and 2300 TMT respectively. The demand and supply of Naphtha in Panipat refinery has increased for the Panipat Naphtha Cracker Plant (PNCP) is 800 TMT.</p> <p>ix. All the existing facilities of pumping station like fire fighting, electrical system, Pump house, Pipeline etc. would comply with national, international standards and M.B. Lal committee recommendations. In KSPL augmentation capacity of the system would be changed from 4.6 MMTPA to 6 MMTPA with use of Drag Reducing Agent (DRA).</p> <p>x. With the proposed project the following facilities will be made:</p> <ol style="list-style-type: none"> (i). Replacement of 1 existing motor driven MLPU (Main Line Pumping Unit) at Koyali with new MLPU of adequate capacity. (ii). Replacement of two existing mainline pumps at Koyali with new pumps of adequate capacity. Installation of 3 (2+1) motor driven MLPU's of adequate capacity at Viramgam for Pumping in Viramgam-Sidhpur section. (iii). Replacement of all existing engine/motor driven MLPU's at Sidhpur and Kot with new MLPU's of adequate capacity. (iv). 1 LBT of 10,000 KL nominal capacity at Kot. (v). No work is involved in Right of User (RoU) for mainline. Only work at existing station is envisaged. <p>xi. With the Augmentation of KSPL, Viramgam-Mohanpura section of KSPL will receive product from one source at a time i.e either from Koyali refinery through Koyali-Viramgam section of KSPL or from Kandla port. Naphtha from Koyali refinery would be transported upto Jaipur through existing KSPL .While other products ex-Koyali refinery viz. MS, SKO and HSD would be delivered at ToPs en route KSPL, Naphtha would be transported further to Panipat through new Jaipur-Panipat Naphtha Pipeline.</p> <p>xii. The facilities required for operation of the project, viz., pumping units and booster shed</p>
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	<p>to accommodate the pumping units with associated facilities have been planned to be steel structure. Other facilities like RCC civil structure have been planned to accommodate control panels, HT/LT panels, Batteries etc. all the safety factors like wind load, seismic load, soil bearing capacity etc have been taken into account while designing the civil structures.</p> <p>xiii. The baseline environmental studies for the proposed project are carried out at 30 locations during December, 2016 to January, 2017. Study area for the baseline data generation and collection is the area falling within 10 km radius from the Terminal/station and 500m along the pipeline. Ambient air quality data indicates the ranges of concentration as: RPM ($61\mu\text{g}/\text{m}^3$ - $82\mu\text{g}/\text{m}^3$), SO_2 ($11\mu\text{g}/\text{m}^3$ - $38\mu\text{g}/\text{m}^3$) NO_x ($17\mu\text{g}/\text{m}^3$ - $43\mu\text{g}/\text{m}^3$) and CO ($0.54\mu\text{g}/\text{m}^3$ - $0.85\mu\text{g}/\text{m}^3$). The concentrations are well within the National Ambient Air Quality Standards for industrial areas as well as residential/rural area.</p> <p>xiv. It is reported that no additional land is required. No work is envisaged in right of way as augmentation work is involved in stations only. No work is involved in pipeline route as augmentation is only at existing stations.</p> <p>xv. The Capital cost of the project is Rs 273.23 crore.</p> <p>xvi. A detailed hazard identification and risk analysis study was carried out for the proposed project. Risk from the pipeline is below the ALARP region i.e 10^{-6} per year (one in 1 million/years).</p> <p>xvii. Disaster management plan has been prepared for the proposed project and has been submitted.</p> <p>xviii. Public hearing for the proposed project has been exempted under para 7 (ii) of EIA Notification, 2006.</p> <p>EAC has deliberated on the proposal. EAC has noted that the AAQ concentrations are well within the National Ambient Air Quality Standards. EAC has noted that the PP has obtained EC for the existing unit vide letter no. J-11011/66/2001-IA.II(I) dated 23rd December, 2002. However, Certified Compliance Report from the Regional Office of the Ministry has not been submitted by the PP. EAC desired that the PP shall submit the copy of Certified Compliance Report of the Regional Office of the Ministry for the existing EC.</p> <p>Considering the same, EAC has deferred the proposal for want of Certified Compliance Report.</p>
21.6.3	<p>Expansion of system capacity of Mundra Delhi Pipeline (5 MMTPA to 8 MMTPA) and extension pipeline (280 KM) from Palanpur to proposed marketing Terminal near Vadodara by M/s Hindustan Petroleum Corporation Ltd (HPCL)- Environmental Clearance [IA/GJ/IND2/35453/2015, J-11011/18/2016-IA II (I)]</p> <p>The Project Proponent and the accredited consultant M/s Mantec Consultants Pvt. Ltd., New Delhi gave a detailed presentation on the salient features of the project and informed that:</p> <p>i. The project proposal is for Expansion of system capacity of Mundra Delhi Pipeline (5 MMTPA to 8 MMTPA) and extension pipeline (280 KM) from Palanpur to proposed marketing Terminal near Vadodara by M/s Hindustan Petroleum Corporation Ltd</p>

	<p>(HPCL).</p> <ul style="list-style-type: none"> ii. All Oil & gas transportation pipe line (crude and refinery/ petrochemical products), passing through national parks /sanctuaries/coral reefs /ecologically sensitive areas including LNG Terminal are listed at S.N. 6(a) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC). iii. The PP has obtained EC for the existing unit vide letter no. J-11011/93/2005-IA II (I) dated 20th June, 2005. iv. The proposed project is expansion of the existing project and hence the EC is mandatory. v. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 4th and 12th meeting held during 11-12th February, 2016 and 23rd- 24th August, 2016 respectively and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 18th October, 2016. vi. The public hearing for the project has been exempted as per para 7(ii) of EIA notification, 2006 vii. PP proposed to lay a pipeline to transfer MS, HSD and SKO from the existing Tap off location, at Palanpur marketing and pumping terminal of Mundra-Delhi Pipeline (MDPL) in Gujarat up to Vadodara in Gujarat. The products shall be made available to this pipeline from existing MDPL. Expansion of the system capacity of MDPL from existing 5.0 MMTPA to 8.0 MMTPA by way of, installation of additional pump facilities at Bhachau and Pindwara and laying 280 Kms extension spur pipeline from Palanpur station to HPCL proposed Marketing terminal Near Vadodara. viii. The PP also proposed for additional facilities in the proposed pipeline ix. Additional pumps (2 working + 1 standby) will be installed at the existing Palanpur station on existing MDPL pipeline. Also based on new batch sizes, a new receipt station/marketing terminal is proposed at Vadodara with Rail/Road loading facilities. An additional pigging station (IPS-01) is proposed in the proposed PVPL pipeline at Village-Ghadkan, Taluka-Prantij, District -Sabar kantha in the state of Gujarat. x. Products to be transported are (i). Euro-IV grade of Motor Spirit (MS), (ii). Euro-IV grade of High Speed Diesel (HSD) and (iii). Superior Kerosene Oil (SKO) xi. The proposed pipeline will originate from Palanpur, and would then follow the ROU of 18 meter corridor to terminate at the Green Filed Marketing Terminal near Vadodara. xii. Starting point of extension spur pipeline will be Palanpur and the terminating point shall be at Vadodara Green Field Marketing Terminal, additional pumping stations are proposed at Bhachau, district Kutch (Gujarat) and Pindwara in district Sirohi (Rajasthan) and the proposed marketing terminal at Vadodara. xiii. The land Requirements are as below: <ul style="list-style-type: none"> 1. Bachau Pumping Station: Approx. 11 acres of land has been acquired through direct purchase. 2. Pindwara Pumping Station: Approx. 11 acres of land has been acquired thru direct purchase. 3. Vadodara Marketing Terminal: Approx. 159 Acres of land is being acquired thru Govt. of Gujarat for which 2 nos notifications have been published including 11(1) notification published on 04.01.2017. Land possession is expected shortly. 4. Palanpur pump station augmentation: Sufficient land is available inside the existing
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	<p>Palanpur station for the augmentation facilities.</p> <p>5. ROU acquisition for Palanpur-Vadodara extension Pipeline: There is no permanent land acquisition involved and the only ROU has been acquired as per P&MP Act,1962. ROU acquisition has been completed with final notifications under 6(1) also published.</p> <p>xiv. During construction phase, approx. 2 KLD water will be required for the domestic and construction purposes. During operation phase approx. 5 KLD water will be required. The same shall be obtained from bore well.</p> <p>xv. Power requirement at all the stations shall be met through State Electricity Board. Alternatively for the critical loads, lighting, air conditioning etc.; DG sets of required capacity are being installed. For SV/CP stations; solar panels alongwith grid power synchronization is being installed for taking care of critical loads.</p> <p>xvi. The Pipeline shall originate from existing MDPL receipt cum pumping station at Palanpur and petroleum products namely MS, HSD & SKO will be pumped from Mundra-Delhi Pipeline into Palanpur-Vadodara Pipeline. For this purpose; 3 nos. mainline pumps at Palanpur dispatch station is envisaged.</p> <p>xvii. Tap-off from existing 18" MDPL at Palanpur is taken to mainline pumps after filtering and metering. Basket filters are provided to remove any suspended particles. Flow is measured using mass flow meters which are provided along with flow computers. Density meter is provided downstream of flow meters to measure the density of products and to signal the batch launching.</p> <p>xviii. The cost of the project is Project Cost-1879 crores.</p> <p>xix. The AAQ data was collected during October, 2016- December, 2016. The resultant concentrations are within NAAQS.</p> <p>xx. The PP has submitted the copy of CCR issued vide Ministry's RO vide no. 4-108/2005-RO(WZ)/85-87 dated 15.03.2017.</p> <p>xxi. The proposal does not attract the provisions of wildlife (Protection) Act,1972, Forest (Conservation) Act,1980 and C.R.Z notification, 2011.</p> <p>EAC has deliberated on the proposal and certified compliance report. EAC has noted that the AAQ data are within NAAQS. EAC has noted that the certified compliance report to be satisfactory.</p> <p>After detailed deliberation, EAC has recommended the project for Environmental Clearance with the following specific conditions and other general conditions.</p> <p><u>Specific conditions</u></p> <p>i) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.</p> <p>ii) The project authority i.e. M/s Hindustan Petroleum Corporation Ltd (HPCL) shall ensure restoration of the Right of Way to preconstruction level as soon as construction activity completed. To ensure prevention of soil erosion, backfilled areas should be properly compacted.</p> <p>iii) The design, material of construction, assembly, inspection, testing and safety</p>
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	<p>aspects of operation and maintenance of pipeline and transporting the natural gas shall be governed by ASME/ANSI B 31.8/B31.4 and OISD standard 141.</p> <p>iv) Annual safety audit shall be carried out for the initial three years by an independent agency and report submitted to this Ministry for ensuring the strict compliance of safety regulations on operation and maintenance.</p> <p>v) The construction of pipeline particularly at the river and stream crossing shall be done during dry seasons to avoid disturbance of breeding seasons and soil erosion. The riverbed, embankments and / dykes shall be restored adequately after installation of crossings.</p> <p>vi) Pipeline wall thickness and minimum depth of burial at river crossings and casings at rails, major road crossings shall be in conformity with ANSI/ASME requirements.</p> <p>vii) The company shall follow horizontal drilling technique for laying of pipeline while passing through major rivers.</p> <p>viii) The project authorities shall install SCADA system with dedicated optical fiber based telecommunication link for safe operation of pipeline and Leak Detection System. Additional sectionalizing valves in the residential areas and sensitive location shall be provided to prevent the leaking of gas going to the atmosphere in the event of pipeline failure. Intelligent pigging facility shall be provided for the entire pipeline system for internal corrosion monitoring. Coating and impressed current cathodic protection system shall be provided to prevent external corrosion.</p> <p>ix) The project authorities shall patrol and inspect the pipeline regularly for detection of faults as per OISD guidelines and continuous monitoring of pipeline operation by adopting non-destructive method(s) of testing as envisaged in the EMP. Pearson survey and continuous potential survey shall be carried out at regular intervals to ensure the adequacy of cathodic protection system.</p> <p>x) Necessary approvals from Chief Controller of Explosives must be obtained before commission of project. Requisite On-site and Off-site Disaster Management Plans shall be prepared and implemented. It is necessary that integrated DMP should be in place as the pipeline is passing through four Districts.</p> <p>xi) The acoustic chambers/barriers should be provided for individual units wherever feasible in the compressor stations.</p> <p>xii) The workers camp should have arrangement for safe drinking water, hygienic kitchen and sanitation facilities. The wastewater should be properly treated before disposal.</p> <p>xiii) The company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities.</p> <p>xiv) PP shall spend 2 % of project cost under CSR activities for Drinking water (RO) to schools, computer facility to Schools/colleges and solar panel to school/college/health centres, in the villages where the pipeline is passing. PP shall also maintain the facilities.</p>
21.6.4	<p>Expansion of Single Point Mooring (SPM), Crude Oil Terminal (COT), the pipeline connecting SPM to COT at Mundra Port and Crude Oil Pipeline from Mundra Coast in Gujarat to Bathinda in Punjab from 9 MMTPA to 11.25 MMTPA by upgrading 2 nos. intermediate pigging stations into pumping stations by M/s HPCL-Mittal Pipelines Ltd (HMPL).-Environmental Clearance. [IA/GJ/IND2/62610/2015, J-11011/25/1998/2015-IA</p>

II (I)]

The Project Proponent and the accredited consultant M/s Engineers India Limited, New Delhi gave a detailed presentation on the salient features of the project and informed that:

- i. The project proposal is for Expansion of Single Point Mooring (SPM), Crude Oil Terminal (COT), the pipeline connecting SPM to COT at Mundra Port and Crude Oil Pipeline from Mundra Coast in Gujarat to Bathinda in Punjab from 9 MMTPA to 11.25 MMTPA by upgrading 2 nos. intermediate pigging stations into pumping stations by M/s HPCL-Mittal Pipelines Ltd.
- ii. All Oil & gas transportation pipe line (crude and refinery/ petrochemical products), passing through national parks /sanctuaries/coral reefs /ecologically sensitive areas including LNG Terminal are listed at S.N. 6(a) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).
- iii. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 8th EAC meeting held during 26-27.05.2016 and recommended Terms of References (TORs) for the Project. The TOR has been issued by the Ministry Vide Letter no. J-11011/25/1998/2015 dated 11.07.2016.
- iv. Ministry has issued EC vide letter no. J-11011/25/98-1AII (I) dated 31.07.2008 for Crude Oil Pipeline from Mundra Coast to Bathinda in Punjab unit and 10-5/08-IA-III dated 23.12.2008 for Single Point Mooring (SPM),Crude Oil Terminal (COT), the Pipeline connecting SPM to COT at Mundra Port to M/s HMPL .
- v. Existing land area is sufficient, additional No land will be used for proposed Expansion.
- vi. Industry will develop Greenbelt in an area of 25% i.e, 2.5Ha out of 10 Ha of area of the project.
- vii. The estimated Project cost is Rs. 2541 Crores including existing investment of Rs. 2389 crores. Total capital cost earmarked towards environmental pollution control measures is Rs19.5 Crores(Rs. 12 Crores existing + proposed Rs. 7.5 Crores) and the recurring cost (operation and maintenance) will be about Rs 56 Lakhs per annum.
- viii. Total employment will be 100-200 persons as contract (indirect construction phase) and 26 – 28persons direct after expansion. Industry proposes to allocate Rs7.5 crores@ of 5% towards Corporate Social Responsibility.
- ix. It is reported that no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10Km distance. Banas river is flowing at a distance of 13 km in east direction of IPS-2. No river/water body is located near/within 10 Km of IPS-4.
- x. Ambient air quality monitoring was carried out at 12 locations during November 2016 to January 2017 and submitted baseline data indicates that ranges of concentrations as: PM₁₀ (68-88ug/m³), PM_{2.5} (37-56ug/m³), SO₂(6-11ug/m³) and NO₂(16-26ug/m³). The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
- xi. Total fresh water requirement is 48.4m³/day and will be met from ground water.
- xii. Treated effluent of 4.6KLD (sewage) will be treated through soak pit plant will be based on zero liquid discharge system (if applicable).
- xiii. Power requirement after expansion will be 24MW including existing 12000 KVA and

will be met from Gujarat/ Rajasthan state power distribution corporation limited. Existing unit has 1 DG set of 165 KW capacity. Stack(height building height +1.5m) will be provided as per CPCB norms to the proposed DG sets of one per station in addition to the existing DG sets of one per station which will be used as standby during power failure.

xiv. The solid waste/ Hazardous waste generation (per station) and its management (member of TSDF) are as follows.

S. No.	Items	Category as per HW Rules	Unit	Quantity	Treatment / Disposal Method
1	Pigging Waste	3.3	MT/ month	0.5	TSDF
2	Sludge from Tank Cleaning, used Filter Elements	3.3	Tons / 5 Years	2	TSDF
3	Used Lube Oil	5.1	MT/year	2	Authorised Recyclers
4	Used Pig Cups/Discarded Containers/Barrels	33.3	Nos./year	16 pig cups 5 Discarded Containers/Barrels	TSDF

xv. The Public hearing has been exempted under section 7 (ii) of EIA Notification, 2006.

xvi. The PP has submitted the copy of certified compliance report submitted by RO, MoEF&CC, (submitted vide letters 6-1/2009(ENV)/109 dated 17/03/2017 and 5-41/2000-RO(NZ)/89-91/91 dated 21.03.2017.

xvii. Following are list of existing and proposed products:

Existing Product list: NA

Sl.NO	Products	Quantity (TPA)
1	Crude transfer	9 MMTPA

Proposed products and their capacities for EC Expansion

Sl.NO	Products	Quantity (TPA)
1	Crude transfer	11.25 MMTPA

EAC has deliberated on the proposal and certified compliance report. EAC has noted that the resultant AAQ is within the National Ambient Air Quality Standards (NAAQS). EAC has deliberated on the compliance report and found it to be satisfactory. EAC has desired that the

PP shall submit CSR plan (@ 5 % of the project cost) for five years. The PP vide letter no. HMPL/MOEF&CC/PKB/322 dated 28.03.2017 has submitted the CSR plan for five years with a total cost of Rs. 750 lakhs with the provisions of Solar lighting/ solar pump (irrigation) system, drinking water facilities, resource upliftment at schools and resource provision for talent development.

EAC after detailed deliberations has recommended the project for environmental clearance with the following specific conditions and other general conditions.

Specific conditions:

- i. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- ii. The project authority i.e. **M/s HPCL-Mittal Pipelines Ltd (HMPL)** shall ensure restoration of the Right of Way to preconstruction level as soon as construction activity completed. To ensure prevention of soil erosion, backfilled areas should be properly compacted.
- iii. The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas shall be governed by ASME/ANSI B 31.8/B31.4 and OISD standard 141.
- iv. Annual safety audit shall be carried out for the initial three years by an independent agency and report submitted to this Ministry for ensuring the strict compliance of safety regulations on operation and maintenance.
- v. The construction of pipeline particularly at the river and stream crossing shall be done during dry seasons to avoid disturbance of breeding seasons and soil erosion. The riverbed, embankments and / dykes shall be restored adequately after installation of crossings.
- vi. Pipeline wall thickness and minimum depth of burial at river crossings and casings at rails, major road crossings shall be in conformity with ANSI/ASME requirements.
- vii. The company shall follow horizontal drilling technique for laying of pipeline while passing through major rivers.
- viii. The project authorities shall install SCADA system with dedicated optical fiber based telecommunication link for safe operation of pipeline and Leak Detection System. Additional sectionalizing valves in the residential areas and sensitive location shall be provided to prevent the leaking of gas going to the atmosphere in the event of pipeline failure. Intelligent pigging facility shall be provided for the entire pipeline system for internal corrosion monitoring. Coating and impressed current cathodic protection system shall be provided to prevent external corrosion.
- ix. The project authorities shall patrol and inspect the pipeline regularly for detection of faults as per OISD guidelines and continuous monitoring of pipeline operation by adopting non-destructive method(s) of testing as envisaged in the EMP. Pearson survey and continuous potential survey shall be carried out at regular intervals to ensure the adequacy of cathodic protection system.
- x. Necessary approvals from Chief Controller of Explosives must be obtained before

	<p>commission of project. Requisite On-site and Off-site Disaster Management Plans shall be prepared and implemented. It is necessary that integrated DMP should be in place as the pipeline is passing through four Districts.</p> <ul style="list-style-type: none"> xi. The acoustic chambers/barriers should be provided for individual units wherever feasible in the compressor stations. xii. The workers camp should have arrangement for safe drinking water, hygienic kitchen and sanitation facilities. The wastewater should be properly treated before disposal. xiii. The company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities. xiv. PP shall spend 5 % of project cost under CSR activities for Drinking water (RO) to schools, computer facility to Schools/colleges and solar panel to school/college/health centres, in the villages where the pipeline is passing. PP shall also maintain the facilities.
21.6.5	<p>Capacity expansion of Existing Ramanmandi-Bahadurgarh Petroleum Products Pipeline (RBPL) passing through States of Haryana and Punjab by M/s Hindustan Petroleum Corporation Ltd (HPCL)- Environmental Clearance [IA/HR/IND2/61234/2016, J-11011/196/2016- IA II(I)]</p> <p>The Project Proponent and the accredited consultant M/s Mantec Consultants Pvt. Ltd., New Delhi gave a detailed presentation on the salient features of the project and informed that:</p> <ul style="list-style-type: none"> i. The project proposal is for Capacity expansion of Existing Ramanmandi-Bahadurgarh Petroleum Products Pipeline (RBPL) passing through states of Haryana and Punjab by M/s Hindustan Petroleum Corporation Ltd (HPCL). ii. All Oil & gas transportation pipe line (crude and refinery/ petrochemical products), passing through national parks /sanctuaries/coral reefs /ecologically sensitive areas including LNG Terminal are listed at S.N. 6(a) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC). iii. The PP has obtained EC for the existing unit vide letter no. J-11011/581/2008-IA II (I) dated 29th April, 2009. iv. The proposed project is expansion of the existing project and hence the EC is mandatory. v. The project proposal was considered by the EAC (Industry-2) in its 13th meeting held during 26-27th September, 2016 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 25th November, 2016. vi. The PP operates its existing Raman Mandi Bahadurgarh Pipeline (RBPL), which is a 243 Km long 18" dia. Cross country multi-product petroleum pipeline from Guru Gobind Singh Refinery (GGSR) Dispatch Station at Ramanmandi in Bathinda, Punjab state to product receiving facilities at Bahadurgarh in Haryana, for transporting POL products such as Motor Spirit (EURO-III, EURO-IV), HSD (EURO-III, EURO-IV), two grades of Superior Kerosene Oil (SKO), Aviation turbine fuel (ATF) and Naptha (Future). This pipeline is catering to demand of Bahadurgarh via Guru Gobind Singh Refinery (GGSR) for the distribution of products in Northern India. vii. Ramanmandi-Bahadurgarh cross country Pipeline (RBPL) was commissioned during November 2012 for the evacuation of POL products i.e., MS, HSD, SKO, ATF from

	<p>HMEL Refinery to Bahadurgarh terminal. The pipeline passes through 8 districts and 85 villages of Punjab and Haryana states. Present capacity of RBPL 4.71 MMTPA and it is proposed to augment the RBPL capacity upto 8.0 MMTPA for transportation of additional petroleum products.</p> <p>viii. The utilization of RBPL for transporting POL products post capacity expansion will enable bring down the dependency of transporting POL through road trucks and rail wagons and result in considerable reduction of road/ rail traffic congestion and environmental pollution.</p> <p>ix. The features of the proposed project are:</p> <ul style="list-style-type: none"> (i). Existing 18"dia x 243Km cross country pipeline between Ramanmandi and Bahadurgarh named as RBPL (Ramanmandi Bahadurgarh Pipeline). (ii). Additional booster & mainline pumps along with associated facilities are to be installed at dispatch Station at Ramanmandi. (iii). Intermediate Pumping Station is to be constructed at Ch. 122 at existing SV-4 with 2 Working + 1 Standby mainline pumps and other associated facilities like control room, sub-station, SCADA, PLC, Telecom etc. (iv). 33 KV Power supply at proposed Intermediate Pumping station will be obtained through State Electricity Board. <p>x. All the new facilities envisaged at Intermediate Pumping Station at Barwala (SV-4) like fire fighting, electrical system, Pump house, control room, SCADA, PLC & Telecom etc. would comply with applicable OISD Codes & National, International Standards and M.B. Lal committee recommendations.</p> <p>xi. The facilities required for operation of the project, viz., pumping units with associated facilities have been planned to be steel structure. Other facilities like RCC civil structure have been planned to accommodate control panels, HT/LT panels, Batteries etc. All the safety factors like wind load, seismic load, soil bearing capacity etc have been taken into account while designing the civil structures.</p> <p>xii. 11 Acres of land is required for the project and is allotted by the Govt. of Haryana abutting existing SV-4 on RBPL.</p> <p>xiii. During construction phase, approx. 2 KLD water will be required for the domestic and construction purposes. During operation phase approx. 5 KLD water will be required, the same shall be obtained from bore well.</p> <p>xiv. Power will be sourced from State Electricity Board. For Emergency requirement one no DG set of 400 KVA capacity will be installed at IPS, Barwala. Approx. 25 litres per day for DG set, which shall be sourced locally.</p> <p>xv. The cost of the project is Rs. 230 crores.</p> <p>xvi. Public hearing has been exempted under Para 7 (ii) of EIA Notification.</p> <p>xvii. The AAQ was collected at 30 locations during March, 2016- May, 2016. The resultant concentrations of PM10, SO2, NO2 and CO at all locations are well within the NAAQS standard limits.</p> <p>xviii. The PP has submitted the copy of certified compliance report issued by Ministry's Regional Office at Chandigarh vide no. 5-194/2009-RO(NZ)/76 dated 23.02.2017.</p> <p>EAC has deliberated on the proposal and the certified compliance report. EAC has noted that the AAQ data were collected during March, 2016- May, 2016, though the TOR was issued on</p>
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25.11.2016. EAC noted that the proposal has been submitted for appraisal as it is an expansion case only. EAC has also noted that the resultant concentrations of PM₁₀, SO₂, NO₂ and CO at all locations are well within the NAAQS standard limits. EAC after detailed deliberation has accepted the data considering that the project is a linear project. EAC has also deliberated on the certified compliance report and found it to be satisfactory. EAC has desired that the PP may submit a revised CSR plan (@ 2.5 % of the project cost) for five year incorporating drinking water facility and solar panel system to the schools/villages in the pipeline passing/project area.

EAC after deliberation has recommended the project for environmental clearance subject to compliance of following specific and other general conditions.

Specific conditions

- i. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- ii. The project authority i.e. **M/s Hindustan Petroleum Corporation Ltd (HPCL)** shall ensure restoration of the Right of Way to preconstruction level as soon as construction activity completed. To ensure prevention of soil erosion, backfilled areas should be properly compacted.
- iii. The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas shall be governed by ASME/ANSI B 31.8/B31.4 and OISD standard 141.
- iv. Annual safety audit shall be carried out for the initial three years by an independent agency and report submitted to this Ministry for ensuring the strict compliance of safety regulations on operation and maintenance.
- v. The construction of pipeline particularly at the river and stream crossing shall be done during dry seasons to avoid disturbance of breeding seasons and soil erosion. The riverbed, embankments and / dykes shall be restored adequately after installation of crossings.
- vi. Pipeline wall thickness and minimum depth of burial at river crossings and casings at rails, major road crossings shall be in conformity with ANSI/ASME requirements.
- vii. The company shall follow horizontal drilling technique for laying of pipeline while passing through major rivers.
- viii. The project authorities shall install SCADA system with dedicated optical fiber based telecommunication link for safe operation of pipeline and Leak Detection System. Additional sectionalizing valves in the residential areas and sensitive location shall be provided to prevent the leaking of gas going to the atmosphere in the event of pipeline failure. Intelligent pigging facility shall be provided for the entire pipeline system for internal corrosion monitoring. Coating and impressed current cathodic protection system shall be provided to prevent external corrosion.
- ix. The project authorities shall patrol and inspect the pipeline regularly for detection of faults as per OISD guidelines and continuous monitoring of pipeline operation by adopting non-destructive method(s) of testing as envisaged in the EMP. Pearson survey and continuous potential survey shall be carried out at regular intervals to ensure the adequacy of cathodic protection system.

	<ul style="list-style-type: none"> x. Necessary approvals from Chief Controller of Explosives must be obtained before commission of project. Requisite On-site and Off-site Disaster Management Plans shall be prepared and implemented. It is necessary that integrated DMP should be in place as the pipeline is passing through four Districts. xi. The acoustic chambers/barriers should be provided for individual units wherever feasible in the compressor stations. xii. The workers camp should have arrangement for safe drinking water, hygienic kitchen and sanitation facilities. The wastewater should be properly treated before disposal. xiii. The company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities. xiv. PP shall implement the CSR plan (@2.5 % project cost) incorporating drinking water facility and solar panel system to the schools/villages in the pipeline passing/project area.
21.6.6	<p>Pattikkad- Alathur rerouted portion of Kochi- Palakkad LPG pipeline (28.87 km) by M/s Kochi Salem Pipeline Private Limited-Environmental Clearance [IA/KL/IND2/57100/2016, J-11011/182/2016- IA II(I)]</p> <p>The Project Proponent and the accredited consultant M/s Mecon Limited, Ranchi gave a detailed presentation on the salient features of the project and informed that:</p> <ul style="list-style-type: none"> i. The project proposal is for Pattikkad- Alathur rerouted portion of Kochi- Palakkad LPG pipeline (28.87 km)by M/s Kochi Salem Pipeline Private Limited. ii. All Oil & gas transportation pipe line (crude and refinery/ petrochemical products), passing through national parks /sanctuaries/coral reefs /ecologically sensitive areas including LNG Terminal are listed at S.N. 6(a) of Schedule of Environmental Impact Assessment (EIA) Notification under Category ‘A’ and is appraised at Central Level by Expert Appraisal Committee (EAC). iii. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 12th meeting held during 23-24th August, 2016 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 25th October, 2016. iv. The PP has obtained EC for the pipeline from Kochi Refinery to Kerala Tamilnadu border vide Ministry’s letter no. F. No. J-11011/396/2012-IA II(I) dated 03.07.2015.It is reported that the EC is in the implementation stage. v. The proposed re-alignment of pipeline passes through the Peechi Vazhani wildlife sanctuary for an extent of 0.4754 Ha along the existing PCCKPL pipeline. vi. It is informed that the M/s Kochi Salem Pipeline Private Limited is a joint venture of Bharat Petroleum Corporation Limited and Indian Oil Corporation Limited and is laying a 12 “dia LPG pipeline from BPCL Kochi Refinery to Kerala Tamilnadu border including connectivity to IOCL Udayamperoor LPG plant in the state of Kerala(Approximately 199 Kms) as per the Environment Clearance granted vii. PP have informed that, it has been necessitated to re-route a portion of the pipeline for a length of 28.87 kms from Pattikkad in Thrissur District to Alathur in Palakkad District in view of the mounting resistance of land owners against fresh ROU acquisition in Thrissur and Palakkad Districts, which is a serious concern for completion of the pipeline. PP therefore proposed for diversion of route for this stretch as per the following consideration.

viii. The pipeline route has been proposed to follow the ROU of earlier laid Cochin-Coimbatore–Karur pipeline wherever feasible to avoid fresh ROU acquisition to the extent possible to minimize the objections from land owners.

ix. The proposed re-routing provides the following advantages:

1. Fresh diversion of forest area and consequent tree felling is avoided as detailed below.

Forest diversion considered in the earlier proposal for which approval is obtained	Forest already diverted for laying PCCK pipeline	Additional diversion required by laying KSPPL pipeline along the forest diverted for PCCK	Reduction in forest diversion as per the rerouting proposed
1.441 Ha	0.758 Ha (0.4754 Ha through Peechi Sanctuary)	Nil	0.683 Ha

2. The route avoids fresh ROU acquisition and thereby addresses the concern of the people in this area.

3. The above route shortens the pipeline length thereby reducing the temporary ecological disturbances.

x. Baseline environmental data was monitored during October, 2013 – December, 2013 from Kochi to Coimbatore and additional environmental data was monitored during October, 2016 – December, 2016 for the rerouted portion of LPG pipeline from Pattikkad in Thrissur district to Alathur in Palakkad district. Ambient air quality was monitored at 27 locations in Kochi to Coimbatore route and additional monitoring at three locations was carried out in the rerouted portion of pipeline. Parameters monitored were PM₁₀, PM_{2.5}, SO₂, NO_x, CO & HC. The resultant concentrations are within the NAAQS standard limits.

xi. It is informed that, PP has submitted applications to Forest, Wild life and NHAI for their clearances for the proposed re- routing.

xii. It is reported that NHAI have accorded clearance for routing the pipeline along the new alignment.

xiii. It is reported that MoEF&CC has accorded Stage 1 clearance vide letter dated 18.04.2016 for laying the pipeline in the forest area already diverted for PCCKL for an extent of 0.2826 Ha. For the balance portion of 0.4754 Ha through Peechi Sanctuary, it has been suggested that the clearance will be accorded once wildlife provides their clearance.

xiv. It is reported that, regarding Wildlife clearance, the proposal is recommended by the State Wildlife Board of Kerala and Additional Chief secretary, State (Forest & Wildlife Department, Government of Kerala) have forwarded the proposal to National Board for Wildlife.

xv. Public hearing was exempted as per para 7(ii) of EIA, Notification, 2006.

EAC has deliberated on the proposal. EAC has noted that the pipeline route has been proposed

	<p>to follow the main pipeline route to avoid fresh ROU acquisition to minimize the objections from land owners. EAC has also noted that the new route shortens the pipeline length and thereby reduce the possible ecological disturbances. EAC has also noted that the certified compliance report is not necessary as the project is in the implementation stage. EAC has desired that the PP make utilize 2.5 % of the project cost under CSR activities. PP has informed that EAC that CSR activity will be done with 2.5 % of the project cost, 50% of which will be spent during construction and rest during operation. The CSR funds will be utilised for providing computers/monitors to the needed schools, ambulances to the needed panchayats, borewells/ drinking water facilities to needed panchayats along the pipeline route. EAC suggested that the PP may utilize the amount for activities like providing computer/smart class facilities for schools/colleges, Ambulance facility and borewells/ drinking water facilities in the villages of proposed pipeline route. EAC desired that the PP shall comply with all the other conditions in the EC dated 03.07.2015.</p> <p>EAC after detailed deliberation has recommended the project for environmental clearance subject to compliance of conditions in the EC dated 03.07.2015 in addition to the following specific conditions.</p> <p>Additional Specific conditions:</p> <ol style="list-style-type: none"> PP shall comply with the conditions in the EC dated 03.07.2015. PP under CSR activities shall provide computer/smart class facilities for schools/colleges, Ambulance facility and borewells/ drinking water facilities in the villages of proposed pipeline route. Recommendations of SC NBWL shall be obtained.
21.6.7	<p>Additional facility of 51 MW Captive Combined Cycle Power Plant at ONGC Hazira Gas Processing Complex at Tehsil Chorasi, District Surat by M/s Oil and Natural Gas Corporation Ltd.- Environmental Clearance [IA/GJ/IND2/53457/2016, J-11011/117/2016-IA II(I)]</p> <p>The Project Proponent and the accredited consultant M/s ONGC, Delhi gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> The project proposal is for Additional facility of 51 MW Captive Combined Cycle Power Plant at ONGC Hazira Gas Processing Complex at Tehsil Chorasi, District Surat by M/s Oil and Natural Gas Corporation Ltd. All Oil & gas transportation pipe line (crude and refinery/ petrochemical products), passing through national parks /sanctuaries/coral reefs /ecologically sensitive areas including LNG Terminal are listed at S.N. 6(a) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC). The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 12th meeting held during 23-24th August, 2016 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 25th October, 2016. EAC (Industry-2) in its 18th meeting held during 23-25th January, 2017 has exempted the public hearing as the proposal is located in the notified

Industrial area.

- iv. The PP has obtained EC for the existing plant vide Ministry's letter no. F. No. J-11011/677/2008-IA II(I) dated 12th November, 2008.
- v. It is reported that AAQ data was collected in March- May, 2015 from 5 locations. The 24 hourly averaged Particulate Matter (PM₁₀ and PM_{2.5}) concentrations in the rural/residential area in 10 km radius during study period is well within the prescribed standards of NAAQS issued by CPCB. The higher particulate matter values in rural/residential area are due to air borne dust because of local phenomena like vehicular movements on unpaved road, barren land and human activities. The 24 hourly SO₂, NO_x, were monitored. The values of each of the parameters are well within the limits prescribed in the National Ambient Air Quality Standards (NAAQS), notified in November 2009. The values of NH₃, O₃, Benzene, Pb, As, Ni, BaP, were BDL for the study period. The values of each of the parameters were analyzed as prescribed in the National Ambient Air Quality Standards (NAAQS), notified in November 2009.
- vi. It is informed that the proposed CCPP location is adjacent to existing Cogen plant, which lies inside Hazira Notified Industrial Area. ONGC Hazira is a 24*7, continuous gas processing plant operating throughout the year and processing rich, wet, sour gas from Bombay offshore project and converting into dry, lean and sweet gas. The plant has a designed capacity of processing 45.2MMSCMD with its associate condensate. The processed gas is then supplied through HVJ trunk line to GAIL for onward distribution.
- vii. Power and steam(heat) are the two input utilities required for processing the gas to operate various auxiliaries, pump motor utilities etc. and in separation columns/reboilers etc. To ensure continuous uninterrupted operations in Bombay offshore and downstream consumers along HVJ line, Hazira plant has its captive power facility along with associated (HRSG –Heat recovery steam generators) and supplemental auxiliary fired boilers.
- viii. The plant currently has 3 Gas Turbines of combined capacity of 60MW with attached Heat recovery steam generators and separate gas fired boilers too. Two Gas turbines of combined capacity of 40MW (2*20) came up in 1986 and third Gas turbine was added in 1998 as gas processing facility was augmented.
- ix. The process plant is also prone to frequent floods, the region having witnessed 26 floods over the last 100years and three floods, vis., 1994, 1998, 2006 since plant's inception. The 2006 flood was the severest and the plant restoration took 40 days, primarily because of loss of power units, which had been badly damaged in the floods.
- x. It has been decided to phase out the two Gas turbines to overcome the twin issues of vintage and associated reliability and flood mitigation, by putting up the new CCPP unit of 51 MW capacity (33MW-Gas turbine and 18MW Steam turbine) at an elevated height well above the highest flood encountered level (1.5 mts.) at an effective height of 2.5 mt. with an environment friendly improved efficiency unit with DLN (Dry low NO_x) burners with NO_x emissions around 25ppm against the stipulated 50ppm levels. On line SEMS system is part of the equipment. Specific gas consumption for per unit electricity production, measured as Heat rate, is around 1790kcal/kwhr as compared to 3200Kcal/kwhr of the existing units.
- xi. The plant has the flexibility of using steam for the process heat purposes as well as power generation through steam turbine. This will effectively lower gas consumption during annual inspection outages of HRSG boilers, wherein steam of CCPP can be

	<p>diverted to process requirements, thus saving additional fuel burning in auxiliary gas fired boilers..The plant operations would be intermittent and partial along with existing units, involving a phased substitution, and shall be operating in both cogen and combined cycle mode, with correspondingly much less waste/effluent generation on a continuous basis as compared to stated designed values.</p> <p>xii. Fuel (Natural Gas) will be made available within ONGC complex through the existing distribution terminal. Improved power generation efficiency (Proposed CCPP efficiency for power generation is close to 49% as compared to designed 26% simple cycle efficiency of existing units). The fuel gas requirement would be 0.27MMSCMD at designed 51MW load.</p> <p>xiii. Water for the combined cycle power plant shall be sourced from the existing facilities. Total daily water requirement is 2433cu.m /day. ONGC has consent from irrigation department for total water usage of 7490907 cu.m/year, Current ONGC usage is 70-80% of the consented quantity.</p> <p>xiv. Adequate land for the standby power plant is available adjacent to the existing power plant. Land requirement is app. 10000sq.m. Cost of the project is estimated at Rs. 360 cr. The project will employ approximately 250 personnel, both departmental and non-departmental during execution.</p> <p>xv. The stack emissions would be maintained within permissible limits and constantly monitored and made available on line for real time GPCB/CPCB monitoring. The effluent discharge, mostly cooling tower blow down, washing liquid would be treated in the spare capacity available in the existing ETP. Currently, final treated effluent is being reused as Service Water and zero discharge is under execution although plant has a consent for effluent discharge of 3100cu.m /day</p> <p>xvi. As natural gas is a clean fuel, NOx emission will be minimum and there will be negligible SO2 and no particulate matter emissions. For intermittent type noise sources like safety valves, start-up steam vents, inlet of the bypass stack, etc. adequate noise attenuators shall be provided. Suitable measures shall also be taken to limit the plant boundary noise level to less than 55 dBA during day time and 45 dBA during night time.</p> <p>xvii. Electrical equipment such as motors, push button stations, lighting fixtures, junction boxes etc. located in hazardous areas will be provided with increased safety or flameproof type enclosures as per relevant standards and area classification requirements. The facilities will have Gas Detectors, Smoke Detectors, Fire Water Network, Fire extinguishers, Fire Alarms, Pressure and Temperature Switches and other Safety Systems and equipments in place.</p> <p>xviii. For protection of equipment against abnormal system conditions, adequate protective devices will be installed in the respective switch-gears and/or control and relay panels. Each equipment shall be provided with an unit as well as backup protection. Besides this, protection against lightning surges, will be provided with lightning arresters at suitable locations for outdoor equipment over and above the shielding wires and lightning masts.</p> <p>xix. Complete sophisticated instrumentation for exhaust temperature control and over temperature protection shall be provided. Vibration monitoring system complete with all necessary controls shall monitor and control the vibration of all critical points. The system shall be capable of measuring accurate gas fuel flow. Safety barriers shall be</p>
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	<p>provided for all instruments located in hazardous area or explosion proof instruments shall be provided.</p> <p>xx. Based on Risk Assessment and Hazard identification and Analysis, Emergency Response Plan/ Onsite and Offsite Disaster Management Plans are in place in case of natural or in plant emergencies and mock drills are being conducted regularly.</p> <p>xxi. ONGC Hazira Plant regularly conducts CSR activities in and around the villages and settlements for the betterment of the society and to uplift their Quality of Life. This year a fund of about Rs.2 Crores is earmarked for CSR activities.</p> <p>xxii. There is an Occupational Health Centre inside the plant with trained OH Doctors necessary equipments and sophisticated Ambulance on 24 hrs Standby duty.</p> <p>xxiii. Regular monitoring of pollutants in different environmental disciplines such as air, water etc. will be undertaken during the post-operational phase of the plant. The CCPP will be equipped with environmental monitoring programme supported by all necessary instruments/equipment and trained/qualified manpower for ensuring effective monitoring of the ambient air as well as stack gas quality to ensure that the quality of effluents is maintained within the permissible levels. The bypass stack and the main stack of the heat recovery steam generator shall be provided with suitable instruments to monitor the flue gas quality.</p> <p>xxiv. No adverse impact of the project on air, water, land, flora-fauna and nearby population is expected. This project will add to the economic development of the region adding further employment opportunities to local population during construction & operation stages and it will enhance the standard of living of local people.</p> <p>xxv. The PP has submitted the compliance report for the conditions in the existing EC.</p> <p>EAC has deliberated on the proposal. EAC noted that the proposal is for modernization of the plant. EAC has noted that the public hearing has been exempted being the location of project in the notified industrial area. EAC has noted that AAQ data were collected during March-May, 2015, before the grant of TOR. The PP has informed the EAC that the proposal has been initially submitted to the SEIAA during March, 2015 and as per instruction of SEIAA, the proposal has been submitted to MoEFCC. The collection of data has been started accordingly from March, 2015. EAC has considered the validity of the data and noted that the resultant concentrations are within the National Ambient Air Quality Standards. EAC has also considered the compliance report submitted by the PP and found it satisfactory. EAC, however, desired that the PP shall submit the certified compliance report from the Regional Office of Ministry.</p> <p>EAC after detailed deliberation has recommended the project for environmental clearance, subject to following specific conditions and other general conditions.</p> <p>Specific Conditions:</p> <p>i. PP shall submit the certified compliance report from the Regional Office of the Ministry.</p> <p>ii. PP shall allocate 2.5 % of the project cost under CSR activities.</p>
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21.7 Terms of Reference (TOR)

21.7.1 Development Drilling of 6 Wells in Baramura&Konaban and laying of Associated Flowlines at Gomati District, Tripura by M/s ONGC Ltd.[IA/TR/IND2/62591/2017, IA-J-11011/58/2017-IA-II(I)]

The project proponent gave a detailed presentation on the salient features of the project and informed that:

- i. The proposal is for Development Drilling of 6 No. new wells in four districts Sepahijala, West Tripura, Khowai and Gomti districts of Tripura & laying of Associated Flow lines by M/s ONGC.
- ii. All the projects related to Offshore and onshore oil and gas exploration, development & production are listed at S.N. 1(b) under category “A” and appraised at Central level by Expert Appraisal Committee (EAC).
- iii. It is informed that the PP, proposed for Drilling 6 no. new wells falling in 2 PML Blocks namely Baramura Extension IV and Konaban.
- iv. The proposed drilling depth of each new well will be ranging between 2500-3000 m.
- v. Total approximate cost of the project is ranging from Rs. 180 corers.
- vi. Proposed project has no direct employment potential. Indirect employment is approximately of 10-15 personnel.
- vii. It is reported that the complete project is outside of any national parks, wild life sanctuaries. Seasonal water streams are flowing at a distance of 700m to 2Km.
- viii. The project involve forest land.
- ix. PP has informed that the coordinates of the locations are as follows:

S.N.	Wells	Coordinates
1	BMD-1	23° 45' 43.108"E 91° 33' 50.074"N
2	BMD-2	23° 46' 42.504"E 91° 33' 48.872"N
3	BMD-3	23° 46' 59.162"E 91° 33' 38.083"N
4	KND-9	23° 43' 17.492"E 91° 9' 56.056"N
5	KND-12	23° 43' 28.491"E 91° 10' 0.055"N
6	KND-13	23° 43' 46.489"E 91° 9' 36.058"N

- x. The power requirement for this exploratory well will be met through the operation of DG sets. Fuel requirement will be 5-6 KLD of diesel during drilling Phase and it will be supplied onsite by through mobile tankers.

	<p>xi. The daily water consumption will be 25 m³/d, which will be supplied from nearby source. Water based Mud will be used as drilling fluid.</p> <p>xii. It is reported that the drill cuttings are disposed in HDPE lined secured pit and will be subsequently covered to ensure conformance with CPCB designated Best Use Standards and Oil Drilling & Gas Extraction Industry Standards and guidelines provided by the MoEF&CC under the Hazardous Wastes (Management, Handling & Trans boundary Movement) Rules, 2008.</p> <p>xiii. The PP informed that the present project site is falling in four districts Sepahijala, West Tripura, Khowai and Gomti of Tripura. The PP has already conducted public hearing in the month of Feb 2015 for 30 development wells project and in October 2016 for the 51 exploratory drilling.</p> <p>After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:</p> <p>A. Additional TOR:</p> <p>i. Public hearing to be conducted in each district and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made.</p> <p>ii. Forest Clearance to be obtained.</p> <p>The draft EIA/EMP report shall be submitted to the State Pollution Control Board for public hearing. The issues emerged and response to the issues shall be incorporated in the EIA report.</p> <p>It was recommended that 'TORs' along with Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.</p>
21.7.2	<p>Development Drilling of 27 wells & conversion of 37 Exploration Wells & laying of associated flow lines, involving construction of Well Manifold at Kunjaban & Sundalbari and Pipeline at District North Tripura by M/s ONGC Ltd. [IA/TR/IND2/62594/201, IA-J-11011/60/2017-IA-II(I)]</p> <p>The project proponent gave a detailed presentation on the salient features of the project and informed that:</p> <p>i. The proposal is for Drilling of 27 No. new wells and Construction of Well Manifold at Kunjaban & Sundalbari and associated pipelines in 5 Districts of Tripura Viz. West</p>

- Tripura, Sepahijala, Khowai, Gomti, South Tripura Dist. by M/s ONGC.
- ii. Ministry has issued EC vide letter no. J-11011/41/2010-IAII(I) dated 4th January, 2011 for Expansion of Exploratory drilling to M/s ONGC.
 - iii. In the old exploration project, drilling operations were completed under different environment clearance. Thirty Seven (37) numbers such wells are found to be a successful hydrocarbon bearing structure, it was sealed off at that time for future development. This proposal also includes conversion of these 37 No. exploration wells for taking production.
 - iv. All the projects related to Offshore and onshore oil and gas exploration, development & production are listed at S.N. 1(b) under category "A" and appraised at Central level by Expert Appraisal Committee (EAC).
 - v. It is informed that the PP, proposed for Drilling 27 no. new wells falling in 8 PML Blocks, viz. Agartala Dome (AD-4), Agartala Dome, Agartala Dome Extension II, ManikyanagarSonamura Ext I, Tichna, Konaban, Kunjaban and Sundalbari Agartala Dome falling in five Districts of Tripura.
 - vi. PP informed that the 37 no. old exploration wells having hydrocarbon prospects are falling under the above mentioned PML blocks and districts of Tripura.
 - vii. The proposed drilling depth of each new well will be ranging between 2500-3000 m.
 - viii. Total approximate cost of the project is ranging from Rs. 1,123 corers.
 - ix. Proposed project has no direct employment potential. Indirect employment is approximately of 10-15 personnel.
 - x. It is reported that the complete project is outside of any national parks, wild life sanctuaries, forest reserves etc., and the project does not involve any forest land.
 - xi. PP has informed that the coordinates of the 27 new well locations are as follows:

S. N.	Wells	Coordinates
1	KUNJD-1	23° 55' 39.94"E 91° 17' 28.432"N
2	KUNJD-2	23° 54' 19.955"E 91° 24' 48.929"N
3	KUNJD-3	23° 56' 29.937"E 91° 19' 2.599"N
4	KUNJD-4	23° 52' 48.706"E 91° 19' 2.604"N
5	KND-1	23° 42' 39.496"E 91° 10' 13.055"N
6	KND-2	23° 41' 50.5"E 91° 10' 19.055"N
7	KND-3	23° 41' 43.501"E 91° 10' 59.05"N
8	KND-4	23° 42' 13.499"E 91° 11' 6.049"N
9	KND-5	23° 42' 38.496"E 91° 10' 45.051"N
10	KND-6	23° 41' 38.501"E 91° 10' 11.056"N
11	KND-7	23° 41' 54.499"E 91° 10' 2.057"N
12	KND-8	23° 42' 43.496"E 91° 10' 31.052"N

13	KND-10	23° 43' 59.489"E 91° 10' 5.054"N
14	KND-11	23° 43' 59.489"E 91° 10' 7.054"N
15	KND-14	23° 44' 19.487"E 91° 9' 48.055"N
16	MNKD-4	23° 38' 15.269"E 91° 11' 34.641"N
17	MNKD-5	23° 38' 22.018"E 91° 10' 54.875"N
18	MNKD-6	23° 32' 3.574"E 91° 15' 12.762"N
19	MNKD-7	23° 33' 1.709"E 91° 15' 33.098"N
20	MNKD-8	23° 33' 5.609"E 91° 15' 7.111"N
21	MNKD-9	23° 32' 45.39"E 91° 14' 44.405"N
22	MNKD-10	23° 34' 3.563"E 91° 14' 47.792"N
23	MNKD-11	23° 33' 53.544"E 91° 14' 25.201"N
24	MNKD-12	23° 32' 24.992"E 91° 15' 29.709"N
25	SMD-1	23° 30' 18.564"E 91° 16' 16.026"N
26	SMD-2	23° 30' 23.564"E 91° 16' 46.023"N
27	SMD-3	23° 29' 47.567"E 91° 16' 56.022"N

- xii. It is reported that the 37 old exploration wells having hydrocarbon are drilled under the following Environment Clearance issued by MoEF&CC.

S. No	MoEF Reference no. & Date	Number of Wells drilled	Name of Project
1	F.No.J-11011/633/2007-1A II(I) Dated 22.10.2007	1	Exploratory Drilling for Oil & Gas at Assa Arakan Fold Belt Block in Baramura-Gojali Tulamura Area, South Tripura District
2	F.No.J-11011 / 635 / 2007-1A II(I) Dated 22.10.2007	2	Exploratory Drilling for Oil & Gas at Assa Arakan fold belt block KonabanManikyanagar area, West Tripura District,
3	F.No.J-11011 / 636 /2007-1A II(I) Dated	1	Exploratory Drilling for Oil & Gas at Assa Arakan fold belt block in KunjabanBamut

	22.10.2007		area, West Tripura District, Tripura	
4	F.No.J-11011 / 213 / 2008-1A II(I) Dated 11.06.2008	31	Onshore Exploratory Drilling of 67 wells for Oil & Gas in West Tripura & South Tripura District, Tripura	
5	F.No.J-11011/401/2006-1A II(I) Dated 22.09.2008	1	Exploratory Drilling in NELP III Block AA-ONN-2001/1 in Tripura in Assam Arakan Basin	
6	F. No. J-11011 / 41 / 2010- 1A II (I) dated 04.01.2011	1	Expansion of Exploratory Drilling in NELP-III, Block AA-ONN-2001/1, Tripura	

xiii. As reported by PP the coordinates of these 37 no. old exploration wells having hydrocarbon are:

S. No.	Well	Location Coordinates
1	ADDE	91° 20' 27.88"E 23° 43' 17.404"N
2	ADAK	91° 17' 31.502"E 23° 45' 30.589"N
3	ADDI	91° 20' 19.342"E 23° 44' 31.967"N
4	ADDD	91° 21' 37.469"E, 23° 45' 1.796"N
5	ADAO	91° 19' 13.766"E 23° 44' 4.967"N
6	ADDO	91° 21' 50.026"E 23° 44' 35.339"N
7	ADDP_AG T	91° 21' 0.9"E 23° 43' 44.1"N
8	ADDM	91° 20' 37.421"E 23° 44' 11.366"N
9	KUAC	91° 18' 20.53"E 23° 50' 54.24"N
10	KUAD	91° 17' 20.1"E 23° 53' 33.29"N
11	ROAX	91° 16' 3.17"E 23° 30' 40.92"N
12	RO-9 (SUB)	91° 10' 44.562"E, 23° 42' 14.8"N
13	RODG	91° 9' 46.368"E, 23° 44' 5.298"N
14	RODH	91° 10' 3.266"E, 23° 43' 25.262"N

		15	RODL	91° 10' 23.365"E, 23° 43' 3.097"N	
		16	RODJ	91° 10' 23.732"E, 23° 41' 37.54"N	
		17	RODM_AGT	91° 10' 34.619"E, 23° 42' 41.094"N	
		18	RODI_AGT	91° 9' 58.277"E, 23° 42' 2.423"N	
		19	SDDB_AGT	91° 22' 21.86"E, 23° 31' 31.39"N	
		20	ADDQ	91° 19' 42.47"E, 23° 44' 45.629"N	
		21	ADDK	91° 20' 26.902"E, 23° 44' 12.8"N	
		22	ADAP	91° 16' 10.182"E, 23° 45' 15.811"N	
		23	ROAW	91° 10' 2.546"E, 23° 44' 23.068"N	
		24	ROBD	91° 9' 38.509"E, 23° 42' 4.982"N	
		25	RODO	91° 10' 40.577"E, 23° 42' 4.367"N	
		26	ROBF	91° 9' 36.389"E, 23° 42' 37.436"N	
		27	RODP	91° 10' 20.528"E, 23° 42' 11.588"N	
		28	ROBB	91° 15' 28.04"E, 23° 42' 28.62"N	
		29	ROBC	91° 17' 5.226"E, 23° 28' 32.347"N	
		30	SDAA	91° 22' 24.179"E, 23° 31' 33.37"N	
		31	SDAC	91° 24' 33.602"E, 23° 29' 1.446"N	
		32	SDDA_Agt	91° 24' 33.322"E, 23° 29' 2.18"N	
		33	SNDA_Sub	91° 16' 34.349"E, 23° 29' 58.42"N	
		34	GOAF	91° 31' 5.074"E, 23° 14' 47.062"N	
		35	GOAK	91° 30' 42.037"E, 23° 15' 37.116"N	
		36	KHBE	92° 9' 28.937"E, 24° 14' 27.985"N	
		37	KHBJ	92° 8' 38.875"E, 24° 14' 26.444"N	
	xiv.	The power requirement for this exploratory well will be met through the operation of DG sets. Fuel requirement will be 5-6 KLD of diesel during drilling Phase and it will be supplied onsite by through mobile tankers.			
	xv.	The daily water consumption will be 25 m3/d, which will be supplied from nearby source.			

	<p>Water based Mud will be used as drilling fluid.</p> <p>xvi. It is reported that the drill cuttings are disposed in HDPE lined secured pit and will be subsequently covered to ensure conformance with CPCB designated Best Use Standards and Oil Drilling & Gas Extraction Industry Standards and guidelines provided by the MoEF&CC under the Hazardous Wastes (Management, Handling & Trans boundary Movement) Rules, 2008.</p> <p>xvii. The PP informed that the present project site is falling in 5 districts viz. West Tripura Dist., Sepahijala Dist. Khowai Dist., Gomti Dist. and South Tripura Districts of Tripura. The PP has already conducted public hearing in the month of Feb 2015 for 30 development wells project and in October 2016 for the 51 exploratory drilling.</p> <p>The committee has considered the facts that the project sites are falling in the same district where public hearing has already been conducted. PP also informed that project site is near to international border.</p> <p>After detailed deliberations, the Committee prescribed the following Specific TOR in addition to Generic TOR (refer Ministry's website) with exemption in public hearing under para 7 (ii) of the EIA Notification, 2006 for preparation of EIA-EMP report:</p> <p>A. Additional TOR:</p> <p>i. Public hearing is exempted under para 7 (ii) of the EIA Notification, 2006.</p> <p>It was recommended that 'TORs' without Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.</p>
21.7.3	<p>Drilling of seventy four exploratory wells in North Assam Shelf Block, Sivasagar District, Assam by M/s ONGC Ltd. [IA/AS/IND2/62598/2017, IA-J-11011/62/2017-IA-II(I)]</p> <p>The project proponent gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> The proposal is for Drilling of seventy four exploratory wells in North Assam Shelf Block, Sivasagar District, Assam by M/s ONGC Ltd. All the projects related to Offshore and onshore oil and gas exploration, development & production are listed at S.N. 1(b) under category "A" and appraised at Central level by Expert Appraisal Committee (EAC). It is informed that the PP, proposed for Drilling of Seventy Four (74) exploratory locations falling in 21 PML Blocks in Sivasagar District, Assam. The proposed drilling depth of each well will be ranging between 2400-4200 m. Total approximate cost of the project is Rs. 330000 lakhs. Proposed project has employment potential of 50-65 personnel. It is reported that no national parks/Wildlife Sanctuary/ Reserve/ protected forest lies within the radius of 10 kms from the project site of 71 locations. Other three (3) locations

(DSAD, DSAF & RJAA) are falling within eco-sensitive zone of Panidihing Bird Sanctuary. Disang, Dikhow, Jhanji, Mitong, Namdang, Dihing & Brahmaputra Rivers are flowing nearby from the project site. The EAC noted that PP did not mentioned the actual distance of each river from the drilling locations.

viii. PP has informed that the coordinates of the locations are as follows:

S. No.	Wells	PML	Latitude	Longitude
1	PD-N-1	PANIDIHING PML	27°9'25.04"N	94°44'45.69"E
2	BPD-A_ALT		27°9'17.32"N	94°46'20.11"E
3	RD_N-1	RUDRASAGAR PML	26°58'20.04"N	94°32'29.83"E
4	RD_N-2		26°57'59.72"N	94°35'44.13"E
5	RD_N-3		26°56'46.61"N	94°33'10.26"E
6	RD_N-4		26°57'15.61"N	94°37'56.34"E
7	DSAD	NORTH RUDRASAGAR PML	27° 3'15.49"N	94°33'11.89"E
8	DSAF		27° 3'27.92"N	94°35'53.49"E
9	RJAA		27° 4'32.15"N	94°40'49.98"E
10	RD_N-5		27°0'39.91"N	94°38'11.90"E
11	RD_N-6		27°0'11.02"N	94°34'31.69"E
12	RD_N-7		27°1'27.02"N	94°35'44.72"E
13	RD_N-8		27°2'52.57"N	94°38'11.81"E
14	CMG_N-1	CHANMAIGAON PML	26°50'27.88"N	94°34'32.95"E
15	CMG_N-2		26°49'9.44"N	94°34'27.76"E
16	CMG_N-3	EAST CHANMAIGAON EXTN PML	26°49'8.81"N	94°37'57.41"E
17	CMG_N-4		26°51'32.61"N	94°40'6.93"E
18	BCMG-C	CHANMAIGAON EAST PML	26°49'26.52"N	94°35'28.15"E
19	CMG_N-5		26°51'37.57"N	94°38'7.75"E
20	CH_N-1	CHARALI PML	26°58'12.09"N	94°41'51.75"E
21	CH_N-2		26°56'22.23"N	94°40'55.34"E
22	BCH-B		26°54'28.36"N	94°39'1.36"E
23	CH_N-3	WEST CHARALI PML	26°53'55.62"N	94°35'19.82"E
24	CH_N-4		26°53'26.88"N	94°35'25.29"E
25	CH_N-5	CHARALI EXTN PML	26°54'9.81"N	94°37'27.37"E
26	CH_N-6		26°51'9.73"N	94°35'33.36"E
27	CH_N-7		26°52'29.13"N	94°37'20.44"E
28	NM_N-1	NAMTI PML	26°47'33.33"N	94°38'19.56"E
29	NM_N-2		26°47'35.70"N	94°39'7.30"E
30	NM_N-4		26°46'51.48"N	94°37'6.46"E
31	NM_N-3		26°47'19.98"N	94°39'58.71"E

		32	GK_N-1	GELEKI PML	26°48'17.08"N	94°43'46.78"E	
		33	GK_N-2		26°47'6.19"N	94°43'30.96"E	
		34	GK_N-3		26°46'54.76"N	94°42'44.71"E	
		35	GK_N-4		26°46'39.24"N	94°40'38.41"E	
		36	BGK-B		26°48'45.69"N	94°42'53.70"E	
		37	BGK-A-ALT		26°47'17.92"N	94°40'41.24"E	
		38	GK_N-5	GELEKI EXTN II PML	26°48'14.59"N	94°40'19.40"E	
		39	GK_N-6		26°48'33.98"N	94°40'44.41"E	
		40	BNL-A	MEKEYPORE -SANTAK- NAZIRA PML	26°53'31.18"N	94°41'20.43"E	
		41	BNG-A		26°50'4.05"N	94°43'13.41"E	
		42	BNG-B		26°51'54.56"N	94°45'36.18"E	
		43	MSN_N-1		26°54'53.83"N	94°42'59.12"E	
		44	MSN_N-2		26°51'31.97"N	94°44'35.94"E	
		45	MSNB_N-1	MEKEYPORE -SANTAK- NAZIRA-BIHUBAR EXTN PML	26°57'24.11"N	94°49'7.38"E	
		46	MSNB_N-2		26°56'59.33"N	94°48'5.53"E	
		47	MSNB_N-3		26°53'6.07"N	94°49'5.56"E	
		48	MSNB_N-4		26°54'34.95"N	94°48'39.60"E	
		49	CD_N-1	CHARAIDEO NAHORHABI PML	26°58'0.32"N	94°51'40.81"E	
		50	CD_N-2		26°57'51.81"N	94°50'11.67"E	
		51	CD_N-3	CHARAIDEO NAHORHABI EXTN PML	26°57'15.69"N	94°53'42.75"E	
		52	CD_N-4		26°56'5.16"N	94°53'7.62"E	
		53	LP_N-1	LAPLING GAON PML	27° 3'3.06"N	94°49'35.63"E	
		54	LP_N-2		27° 3'7.49"N	94°48'1.81"E	
		55	LP_N-3	LAPLING GAON EXTN. PML	27° 1'12.07"N	94°45'32.67"E	
		56	LP_N-4		27° 4'5.18"N	94°46'21.81"E	
		57	BBM-B	BANAMALI PML	27° 3'6.38"N	94°58'16.17"E	
		58	BM_N-1		27° 4'36.20"N	94°56'58.96"E	
		59	BM_N-2		27° 5'48.09"N	94°54'49.51"E	
		60	BM_N-3		27° 6'13.47"N	94°53'21.20"E	
		61	SN_N-1	SONARI PML	27° 0'10.71"N	94°57'25.58"E	
		62	SN_N-2		26°59'52.31"N	94°55'58.93"E	
		63	SN_N-3		27° 1'58.54"N	94°57'42.21"E	
		64	BLK-B	LAKWA PML	26°58'33.02"N	94°47'14.87"E	
		65	BDG-A		26°59'21.41"N	94°43'56.18"E	
		66	LK_N-1		26°57'38.79"N	94°44'36.85"E	
		67	LK-N-2		27° 0'28.88"N	94°46'1.10"E	
		68	LK_N-3		27° 0'45.36"N	94°48'0.03"E	
		69	LK_N-4		27° 3'14.04"N	94°52'8.46"E	

informed that:

- i. The proposal is for Development Drilling of 18 Wells in Agartala Dome, Manikyanagar & Sundalbari fields and laying of Associated Flow lines by M/s ONGC Ltd.
- ii. All the projects related to Offshore and onshore oil and gas exploration, development & production are listed at S.N. 1(b) under category “A” and appraised at Central level by Expert Appraisal Committee (EAC).
- iii. It is informed that the PP, proposed for Drilling 18 no. new wells falling in 4 PML Blocks namely Agartala Dome (AD-4), Agartala Dome, Agartala Dome Extension II, ManikyanagarSonamura Ext I andSundalbariAgartala Dome in Sepahijalaand Gomti District of Tripura.
- iv. The proposed drilling depth of each new wells will be ranging between 2500-3000 m.
- v. Total approximate cost of the project is ranging from Rs. 540 corers.
- vi. Proposed project has no direct employment potential. Indirect employment is approximately of 10-15 personnel.
- vii. It is reported that no national parks/ Reserve/ protected forest lies within the radius of 10 kms from the project site. 14 no. new wells lies within 10 km distance of Sepahijala WLS and 4 no. new wells lies within 10 km distance of Trishna WLS.
- viii. Coordinates of the drilling locations are as follows:

S.N.	Wells	Coordinates
1	ADD-1	23° 45' 33.614"E 91° 21' 27.736"N
2	ADD-2	2 23° 45' 28.224"E 91° 20' 26.574"N
3	ADD-3	23° 45' 0.786"E 91° 20' 10.647"N
4	ADD-4	23° 44' 7.124"E 91° 32' 25.955"N
5	ADD-5	23° 43' 45.861"E 91° 19' 45.752"N
6	ADD-6	23° 43' 27.704"E 91° 20' 39.975"N
7	ADD-7	23° 43' 47.903"E 91° 21' 8.171"N
8	ADD-8	23° 43' 23.803"E 91° 19' 36.203"N
9	ADD-9	23° 42' 52.526"E 91° 20' 20.379"N
10	ADD-10	23° 43' 34.704"E 91° 21' 35.808"N
11	ADD-11	23° 42' 51.506"E 91° 20' 19.179"N
12	MNKD-1	23° 38' 21.839"E 91° 12' 21.265"N
13	MNKD-2	23° 38' 36.268"E 91° 12' 27.843"N
14	MNKD-3	23° 38' 22.769"E 91° 12' 10.386"N

		<table><tr><td>15</td><td>SDD-1</td><td>23° 29' 13.679"E 91° 24' 56.163"N</td></tr><tr><td>16</td><td>SDD-2</td><td>23° 28' 55.881"E 91° 24' 56.164"N</td></tr><tr><td>17</td><td>SDD-3</td><td>23° 28' 26.983"E 91° 24' 39.366"N</td></tr><tr><td>18</td><td>SDD-4</td><td>23° 28' 42.981"E 91° 24' 44.365"N</td></tr></table>	15	SDD-1	23° 29' 13.679"E 91° 24' 56.163"N	16	SDD-2	23° 28' 55.881"E 91° 24' 56.164"N	17	SDD-3	23° 28' 26.983"E 91° 24' 39.366"N	18	SDD-4	23° 28' 42.981"E 91° 24' 44.365"N
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17	SDD-3	23° 28' 26.983"E 91° 24' 39.366"N												
18	SDD-4	23° 28' 42.981"E 91° 24' 44.365"N												
	<div><div><div>ix.</div><div>The power requirement for this exploratory well will be met through the operation of DG sets. Fuel requirement will be 5-6 KLD of diesel during drilling Phase and it will be supplied onsite by through mobile tankers.</div></div><div><div>x.</div><div>The daily water consumption will be 25 m3/d, which will be supplied from nearby source. Water based Mud will be used as drilling fluid.</div></div><div><div>xi.</div><div>It is reported that the drill cuttings are disposed in HDPE lined secured pit and will be subsequently covered to ensure conformance with CPCB designated Best Use Standards and Oil Drilling & Gas Extraction Industry Standards and guidelines provided by the MoEF&CC under the Hazardous Wastes (Management, Handling &Trans boundary Movement) Rules, 2008.</div></div></div> <div><p>After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry’s website) for preparation of EIA-EMP report:</p><p>A. Specific TOR:</p><div><div><div>i.</div><div>Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made.</div></div><div><div>ii.</div><div>A copy of application seeking clearance from NBWL w.r.t. Sepahijala WLS and Trishna WLS.</div></div></div><p>It was recommended that ‘TORs’ along with Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the ‘Generic Structure of EIA’ given in Appendix III and IIIA in the EIA Notification, 2006.</p></div>													
21.7.5	<div><p>Development Drilling of 9 Wells in Tichna Gas Field, Construction of Tichna Well Manifold & Conversion of 9 Exploration Wells & laying of Associated Flow lines at South Tripura District, Tripura by M/s ONGC Ltd. [IA/TR/IND2/62643/2017, IA-J-11011/64/2017-IA-II(I)]</p><p>The project proponent gave a detailed presentation on the salient features of the project and informed that:</p><div><div><div>i.</div><div>The proposal is for Development Drilling of 9 Wells in Tichna Gas Field, Construction of Tichna Well Manifold & Conversion of 9 Exploration Wells & laying of Associated Flow lines at South Tripura District, Tripura by M/s ONGC Ltd.</div></div></div></div>													

- ii. Ministry has issued EC vide letter no. J-11011/213/2008-IAII(I) dated 11th June, 2008 for Exploratory drilling of 67 wells to M/s ONGC.
- iii. In the old exploration project, drilling operations were completed under different environment clearance. Nine number such wells are found to be a successful hydrocarbon bearing structure, it was sealed off at that time for future development. This proposal also includes conversion of these 9 No. exploration wells for taking production.
- iv. All the projects related to Offshore and onshore oil and gas exploration, development & production are listed at S.N. 1(b) under category "A" and appraised at Central level by Expert Appraisal Committee (EAC).
- v. The proposed drilling depth of each new wells will be ranging between 800-1200 m.
- vi. Total approximate cost of the project is ranging from Rs. 180 corers.
- vii. Proposed project has no direct employment potential. Indirect employment is approximately of 10-15 personnel.
- viii. It is reported that all the 9 new wells lies within 10 km distance of Trishna Wildlife Sanctuary. Seasonal water streams are at a distance range of 500m to 2Km.
- ix. PP has informed that the coordinates of the locations are as follows:

S. N.	Wells	Latitude	Longitude
1	TIAC	23° 24' 17.077"N	91° 21' 30.409"E
2	TIAF	23° 21' 12.7368"N	91° 22' 02.8194"E
3	TIAG	23° 23' 19.19"N	91° 21' 31.55"E
4	TIDA	23° 23' 32.57"N	91° 21' 53.20"E
5	TIDC	23° 23' 10.64"N	91° 21' 51.16"E
6	TIDD	23° 23' 12.57"N	91° 22' 07.26"E
7	TIDE	23° 23' 45.8"N	91° 21' 48.06"E
8	TIDF	23° 23' 58.15"N	91° 22' 01.46"E
9	TIDG	23° 22' 12.62"N	91° 22' 0.75"E

- x. It is reported that the 9 old exploration wells having hydrocarbon are drilled under the following Environment Clearance issued by MoEF&CC.

S. No.	MoEF Reference no. & Date	No. of Wells.	Name of Project
1	F.No.J-11011/633/2007-1A II(I) Dated 22.10.2007	3	Exploratory Drilling for Oil & Gas at Assam Arakan Fold Belt Block in Baramura-Gojalia-Tulamura Area, South Tripura District, Tripura by M/s ONGC

2	F.No.J-11011 / 634 / 2007-1A II(I) Dated 22.10.2007	1	Exploratory Drilling for Oil & Gas at Assam Arakan fold belt block in Khowai-Kalyanpur Area, West Tripura District, Tripura
4	F.No.J-11011 / 213 / 2008-1A II(I) Dated 11.06.2008	5	Onshore Exploratory Drilling of 67 wells for Oil & Gas in West Tripura & South Tripura District, Tripura

- xi. As reported by PP the coordinates of these 9 old exploration wells having hydrocarbon are:

S. N.	Wells	Coordinates
1	ADDH	91° 23' 31.618"E, 23° 43' 21.007"N
2	ADDN_AGT	91° 21' 21.197"E, 23° 42' 47.718"N
3	BMSC_Sub	91° 33' 36.428"E, 23° 51' 26.19"N
4	BMDJ	91° 33' 36.428"E, 23° 51' 26.19"N
5	BRMG	91° 33' 0"E, 23° 52' 20.878"N
6	RODN	91° 15' 13.072"E, 23° 32' 53.61"N
7	GSF	91° 34' 39.907"E, 23° 5' 50.723"N
8	GOAB	91° 36' 15.527"E, 23° 1' 33.038"N
9	TMD	91° 44' 28.936"E, 23° 14' 38.155"N

- xii. The power requirement for this exploratory well will be met through the operation of DG sets. Fuel requirement will be 5-6 KLD of diesel during drilling Phase and it will be supplied onsite by through mobile tankers.
- xiii. The daily water consumption will be 25 m3/d, which will be supplied from nearby source. Water based Mud will be used as drilling fluid.
- xiv. It is reported that the drill cuttings are disposed in HDPE lined secured pit and will be subsequently covered to ensure conformance with CPCB designated Best Use Standards and Oil Drilling & Gas Extraction Industry Standards and guidelines provided by the MoEF&CC under the Hazardous Wastes (Management, Handling &Trans boundary Movement) Rules, 2008.

After detailed deliberations, the Committee prescribed the following Specific TOR in addition to Generic TOR (refer Ministry's website) for preparation of EIA-EMP report:

A. Specific TOR:

- Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made.
- A copy of application seeking clearance from NBWL w.r.t. Trishna Wildlife Sanctuary.

	<p>iii. Stage-1 FC to be submitted.</p> <p>It was recommended that ‘TORs’ along with Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the ‘Generic Structure of EIA’ given in Appendix III and IIIA in the EIA Notification, 2006.</p>								
21.7.6	<p>Establishment of EPS at ‘BTSAD’, Bhimavaram, West Godavari District of Andhra Pradesh by M/s ONGC Ltd. [IA/AP/IND2/62860/2017 , IA-J-11011/75/2017-IA-II(I)]</p> <p>The project proponent gave a detailed presentation on the salient features of the project and informed that:</p> <ul style="list-style-type: none">i. Establishment of EPS at ‘BTSAD’, Bhimavaram, West Godavari District of Andhra Pradesh by M/s ONGC Ltd.ii. All the projects related to Offshore and onshore oil and gas exploration, development & production are listed at S.N. 1(b) under category “A” and appraised at Central level by Expert Appraisal Committee (EAC).iii. It is informed that the PP, proposed for Establishment of EPS at ‘BTSAD’, Bhimavaram, West Godavari District of Andhra Pradesh.iv. Total approximate cost of the project is Rs. 250 crores.v. Proposed project has employment potential of 40-50 personnel.vi. It is reported that no national parks/Wildlife Sanctuary/ Reserve/ protected forest lies within the radius of 10 kms from the project site.vii. PP has informed that the coordinates of the locations are as follows:<table><tr><th>S. No.</th><th>Project Name</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>BTSAD EPS</td><td>16°25'15.1"N</td><td>81°29'57.8"E</td></tr></table>viii. The power requirement will be met through the power generation facilities of Gas fired power plant. Total Capacity to be around 0.5 MW considering the start-up and peak load requirements.ix. The daily water consumption will be 480 m3/d, which will be met through aborewell proposed to be drilled by ONGC and also supplemented through road tankers if required.x. Effluent generated if any will be transported to ETP Lingala for treatment and disposal. <p>After detailed deliberations, the Committee prescribed the following Specific TOR in addition to Generic TOR (refer Ministry’s website) for preparation of EIA-EMP report:</p> <p>A. Specific TOR:</p> <ul style="list-style-type: none">i. Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made.	S. No.	Project Name	Latitude	Longitude	1	BTSAD EPS	16°25'15.1"N	81°29'57.8"E
S. No.	Project Name	Latitude	Longitude						
1	BTSAD EPS	16°25'15.1"N	81°29'57.8"E						

	<p>It was recommended that ‘TORs’ along with Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the ‘Generic Structure of EIA’ given in Appendix III and IIIA in the EIA Notification, 2006.</p>												
21.7.7	<p>Proposed augmentation in LPG Bulk Storage capacity at LPG Bottling Plant at Mehatpur, Una, Himachal Pradesh by M/s Indian Oil Corporation Ltd. [IA/HP/IND2/61777/2017, IA-J-11011/80/2017-IA-II(I)]</p> <p>The Project Proponent and the accredited ConsultantM/s.Ultra-Tech, gave a detailed presentation on the salient features of the project and informed that:</p> <ul style="list-style-type: none">i. The proposal is for proposed augmentation in LPG Bulk Storage capacity at LPG Bottling Plant at Mehatpur, Una, Himachal Pradesh by M/s Indian Oil Corporation Ltd.ii. All Isolated storage & handling of hazardous chemicals are listed at S.N <u>6(b)</u> of Schedule of Environmental Impact Assessment (EIA) Notification under category 'B' but due to interstate boundary appraised at Central Level by Expert Appraisal Committee (EAC).iii. Existing land area is 32.56 Acres. (Augmentation will be in existing facilities). Geenbelt has already been developed in an area of 33 % i.e 4.3 Ha out of 13.18 Ha of area of the project.iv. The estimated project cost is Rs 21.70 Crore.v. It is reported that, No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Sutluj lake is located at a distance of 3.5km. Nangal Dam is situated at a distance of 10 km in East direction.vi. Water Requirement, Source & Wastewater Generation: Total water requirement including domestic and fire water is being sourced from existing tube wells from site and no additional requirement is envisaged with proposed augmentation of storage capacity.vii. Power required for the existing operations is 450 KW sourced from Himachal Pradesh State Electricity Board. D.G sets are used of 1x250 kVA, 1x400 kVA and 1x500 kVA and no additional requirement is envisaged with proposed augmentation of storage capacity.viii. There will be no chemical process involved and the operation carried out will be receipt of LPG in Bulk form in tank trucks.ix. Waste:No industrial solid waste will be generated during the bottling process. Damaged cylinders will be segregated & stored on site prior to disposal as scrap metal. Hazardous waste generated from D.G set operation will be disposed to HPPCB Authorized Recyclers. The details are provided in below Table: <table><tr><th>S. N.</th><th>Type of waste generated</th><th>Qty</th><th>Disposal method</th></tr><tr><td>1</td><td>Solid (damaged cylinders, parts etc.)</td><td>---</td><td>Sold as scrap metal to dealers</td></tr><tr><td>2</td><td>Hazardous waste (Spent lube oil)</td><td>5 LPM</td><td>Sold to HPPCB Authorized Recyclers</td></tr></table>	S. N.	Type of waste generated	Qty	Disposal method	1	Solid (damaged cylinders, parts etc.)	---	Sold as scrap metal to dealers	2	Hazardous waste (Spent lube oil)	5 LPM	Sold to HPPCB Authorized Recyclers
S. N.	Type of waste generated	Qty	Disposal method										
1	Solid (damaged cylinders, parts etc.)	---	Sold as scrap metal to dealers										
2	Hazardous waste (Spent lube oil)	5 LPM	Sold to HPPCB Authorized Recyclers										

- x. Following are the list of existing and proposed products

Existing Product list:

Sr	Product	Capacity (MT)
1	LPG : Mounded Bullets 3x300	900

Proposed Product list:

Sr	Product	Capacity (MT)
1	LPG : Mounded Bullets 2x600	1200

During presentation PP informed that they have started base line study since January, 2017. The EAC agree with that. After detailed deliberations, the Committee prescribed the following additional TOR in addition to Standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

A. Additional TOR:

- i. Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made.

It was recommended that 'TORs' along with Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.

21.7.8

Onshore Oil & Gas Development Drilling and Production in Mechaki Area covering Mechaki, Mechaki Extension, Baghjan and Tinsukia Extension PMLs in Tinsukia District of Assam by M/s Oil India Limited. [IA/AS/IND2/62502/2017, IA-J-11011/105/2017-IA-II(I)]

The project proponent informed followings:-

- (i) The project involves Onshore Oil & Gas Development Drilling of 18 wells (6 exploratory wells & 12 development wells), 4 Nos. of production installations and laying of gas pipeline from Mechaki to Borhajan (200mm X 33Km); Gas pipeline from Borhajan to Hapjan (250mm X 10Km), Assorted Oil & Gas flowlines/delivery lines (from 50mm to 300mm - total length 90 Km) in Mechaki Block covering Mechaki, Mechaki Extension, Baghjan and Tinsukia Extension PMLs in Tinsukia District of Assam by M/s Oil India Limited.
- (ii) The coordinates of the Mechaki block are given below:

Points	Latitude	Longitude
A	27 ⁰ 46' 35.185''N	95 ⁰ 26' 32.508'' E
B	27 ⁰ 46' 0.000''N	95 ⁰ 42' 0.000'' E
C	27 ⁰ 34' 24.869''N	95 ⁰ 41' 25.954'' E
D	27 ⁰ 35' 0.000''N	95 ⁰ 26' 0.000'' E

- (iii) Ministry had issued EC vide letter no. J-11011/1260/2007 IA II (I) dated 2nd November, 2011 for Drilling of Exploratory Well (6 Nos.) at Mechaki Area, District Tinsukia , Assam by M/s Oil India Limited.
- (iv) All the projects related to Offshore and onshore oil and gas exploration, development & production are listed at S.N. 1(b) under category “A” and appraised at Central level by Expert Appraisal Committee (EAC).
- (v) Land Requirement- Approximate 3 hectare for each drilling location and around 4.0 to 7.0 hectares for each production installation.
- (vi) **Power & Fuel–**
 - *Drilling installation:* DG sets will be used to meet the requirement of power of nearly 1200 KW using nearly 3.5 KLPD of HSD for drilling and other operations.
 - *Production installations:* 216 KW (Fuel Consumption: around 1500 SCUM of Natural Gas per day).
- (vii) **Water** -50 KLPD for drilling wells and 20 KLPD for production installation ground water will be required. In case of availability of surface water nearby, source of water usage will be done accordingly.
- (viii) Exhaust gases from fuel efficient & well maintained DG sets will be discharged from stacks of recommended heights for wider atmospheric dispersion so that emissions remain within permissible limits.
- (ix) Flare system will ensure that impact of gaseous pollutants remains within permissible limits during the few days of flaring in testing, if hydrocarbon is discovered. However, in case of absence of hydrocarbon no flaring will be done.
- (x) Waste water consisting mainly of diluted & environment compliant Water Based Mud (WBM) and rain water shall be treated in mobile Effluent Treatment Plant (ETP) whose treated fluid shall comply with the parameters set by MoEF, CPCB and SPCB. Almost the entire volume of treated water is likely to be recycled and reused for various requirements during well site operations.
- (xi) The total cost of the project is Rs.1067.20.
- (xii) The north east boundary of the block is marked by the Noa-Dihing which debouches into the Lohit and later flows along the northern boundary of the study area to finally meet the Dihang and the Dibang, to create the tri-junction from where the river is known as the Brahmaputra. The Dhola River flowing in a south -westerly direction constitutes a major drainage of the northern parts of the study area, while the Dibru River and its tributaries, also flow south-west and represent the drainage of the southern parts of the study area.

	<p>(xiii) Forest Clearance under The Forest (Conservation) Act, 1980 is applicable and shall be applied for few of the identified locations falling within the block. Two (2) of the proposed drilling locations falling in the notified Mechaki Reserve Forest and 1 (one) location is falling in Dangori Reserve Forest. Forest Clearance Applications for diversion of forest land is under process.</p> <p>(xiv) To the west of the study area, lies the eastern part of the Dibru-Saikhowa National Park. However, none of the proposed locations falls within the ESZ area. The project area also contains agricultural land, tea gardens etc.</p> <p>(xv) No NBWL permission required.</p> <p>During presentation PP informed that Public hearing has been conducted in Tinsukia District for another proposal falling under this area on 26.12. 2016. Public hearing have been held in this area earlier on 07.07.2011 & 23.08.2011 for Tinsukia district.</p> <p>After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) with exemption in public hearing under para 7 (ii) of the EIA Notification, 2006 for preparation of EIA-EMP report:</p> <p>A. Additional TOR:</p> <ol style="list-style-type: none"> Public hearing is exempted under para 7 (ii) of the EIA Notification, 2006. Stage-1 FC shall be submitted. Environmental sensitivity within 1 KM radius of each drilling location shall be separately mentioned in the EIA report. <p>It was recommended that 'TORs' without Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.</p>
21.7.9	<p>Installation of 72 Station Flexi Carousel machine for filling cylinders with additional facility at Existing LPG Bottling Plant at Teela Shahbajpur in Uttar Pradesh by M/s Bharat Petroleum Corporation Limited (BPCL). J-11011/281/2015-IA-II(I)</p> <p>The project proponent informed followings:-</p> <ol style="list-style-type: none"> The project involves installation of 72 Station Flexi Carousel machine for filling cylinders with additional facility at Existing LPG Bottling Plant at Teela Shahbajpur in Uttar Pradesh by M/s Bharat Petroleum Corporation Limited (BPCL). All Isolated storage & handling of hazardous chemicals are listed at S.N <u>6(b)</u> of Schedule of Environmental Impact Assessment (EIA) Notification under category 'B' but due to interstate boundary appraised at Central Level by Expert Appraisal Committee

	<p>(EAC).</p> <ul style="list-style-type: none"> (iii) The existing LPG Plant has storage facilities in mounded bullets of capacity 3 x 1350 MT (total 4050 MT LPG). The plant has bottling facility for five types of cylinders - 5Kg, 14.2Kg, 19Kg, 47.5 kg and 35 Kg. The plant has bottling capacity of around 11000 cylinders of 14.2 kg per carousel per shift. (iv) The existing LPG Plant is located at village Teela Shahbajpur, Loni, Ghaziabad District in Uttar Pradesh. The latitude and longitude of the site are Latitude - 28°43'24.11" N & Longitude 77°19'53.97" E. (v) The unit has obtained CTO from UPPCB for its existing operation as no EC is required during its time of installation. (vi) The proposed project is envisaged for installation of additional 72 Station Flexi Carousel machine and associated facilities within existing LPG plant. To meet the increasing demand of LPG cylinder in the region, there is need to expand the bottling capacity of the existing LPG plant of BPCL. (vii) The power and water required for proposed project is already available at the existing LPG plant. (viii) The source of water is bore well, Fire water storage is 6100 KL and water required for domestic and washing of cylinders is 10 KLD. Settling tank is available for treatment of waste water generated from cylinders washings. (ix) Sludge generated from settling tank is stored in pit. Solid waste like waste paper, food, etc generated from administrative office and small canteen is disposed off as per Municipal Solid Waste (Management and Handling) Rule 2000. (x) Sewage is disposed through existing septic tanks & Soak pits. Used oil generated occasionally from maintenance of DG sets and engines is hazardous waste, which is handed over to authorized used oil recyclers as per MOEF&CC/UPPCB guidelines. Due to its proximity to the Bhoyapur-Loni Road, existing LPG plant is enjoying good infrastructure and other facilities such as availability of skilled as well as unskilled workforce, contractors, transportation facilities, etc. (xi) The estimated capital cost of the proposed expansion project is approx. Rs. 40.5 Crores. <p>The PP informed that project location is situated in notified industrial area i.e. UPSIDC but PP could not produce the land allotment letter so that the claim can be ascertained.</p> <p>After detailed deliberations, the Committee prescribed the following Specific TOR in addition to Generic TOR (refer Ministry's website) for preparation of EIA-EMP report:</p> <p>A. Specific TOR:</p> <ul style="list-style-type: none"> i. Public hearing will be conducted as per provisions of the EIA Notification, 2006. ii. One month baseline data. <p>It was recommended that 'TORs' along with Public Consultation prescribed by the Expert</p>
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	Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the ‘Generic Structure of EIA’ given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.																											
21.7.10	<p>Construction of 2 No. X 3415 KL Bio-diesel tank (Excluded Petroleum Product) and Construction of 1 No. X 858 KL Ethanol tank (Class-A Product) at Mumbai, Maharashtra by M/s BPCL [IA/MH/IND2/62528/2017, IA-J-11011/102/2017-IA-II(I)]</p> <p>The project proponent informed followings:-</p> <p>(i) The project involves Construction of 2 No. X 3415 KL Bio-diesel tank (Excluded Petroleum Product) and Construction of 1 No. X 858 KL Ethanol tank (Class-A Product) at Mumbai, Maharashtra by M/s BPCL.</p> <p>(ii) All Isolated storage & handling of hazardous chemicals are listed at S.N <u>6(b)</u> of Schedule of Environmental Impact Assessment (EIA) Notification under category 'B' but due to unavailability of SEIAA in Maharashtra, proposal apraised at Central Level by Expert Appraisal Committee (EAC).</p> <p>(iii) Existing Sewree Installations were established before 1990.</p> <p>(iv) BPCL Sewree terminal is a limited capacity POL Installation in Mumbai, Maharashtra, catering to Mumbai, Thane, Raigad and Pune of Maharashtra and Hazira of Gujarat. Sewree terminal is spread over three locations viz. Benzene Installation, Khau Creek Installation and ‘A’ (Black Oil) Installations. The total numbers of tanks to be installed are 3, and the maximum total capacity will be 1, 96,501.84 m³.</p> <p>(v) Bharat Petroleum Corporation Limited owns total plot area of 30.35 ha, out of which 1, 52,775 m2 is built-up area and 3, 03,514m2 for parking</p> <p>(vi) The total numbers of tanks to be installed are 3, at Khau Creek Installations and Benzene Installation. The maximum total capacity will be 1, 96,501.84 m³. Petroleum products like MS, HSD, SKO, FO etc. are received through pipelines from Mumbai refinery.</p> <p>(vii) Tankage details at BPCL Sewree Terminal are as follows:</p> <table><tr><th>S. No.</th><th>Location</th><th>Class</th><th>Storage Capacity</th><th>Total Capacity</th></tr><tr><td></td><td rowspan="3">Benzene</td><td>Class A</td><td>11903</td><td rowspan="3">29477.14</td></tr><tr><td></td><td>Class B</td><td>14159.14</td></tr><tr><td></td><td>Excluded petro.</td><td>3415</td></tr><tr><td></td><td rowspan="3">Khau creek</td><td>Class A</td><td>50290</td><td rowspan="3">128039.40</td></tr><tr><td></td><td>Class B</td><td>58353.66</td></tr><tr><td></td><td>Class C</td><td>15980.70</td></tr></table>	S. No.	Location	Class	Storage Capacity	Total Capacity		Benzene	Class A	11903	29477.14		Class B	14159.14		Excluded petro.	3415		Khau creek	Class A	50290	128039.40		Class B	58353.66		Class C	15980.70
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		Class B	58353.66																									
		Class C	15980.70																									

			Excluded petro.	3415	
	Black Oil		Class A		38985.3
			Class B		
			Class C	38985.3	
Grand Capacity					196501.84

(viii) There is no manufacturing process involved in the terminal. The process involved can be divided into:

- Receipt of finished petroleum products through pipelines from Mumbai refinery and tank Lorries.
- Storage of petroleum products in storage tanks fabricated as per international standards.
- Blending of Ethanol and Biodiesel into MS and HSD respectively, in accordance to newly proposed blending skid.
- Dispatch of petroleum products through Tank Lorries.

The entire operation of RECEIPT, STORAGE, BLENDING AND DISPATCH of petroleum products is carried out in a closed system thereby eliminating risk of spillage of products and to achieve enhanced safety.

(ix) There will be twelve (12) nos. of TLF sheds. The loading facilities will be bottom loading for MS and HSD, Ethanol and Biodiesel.

(x) 4 KLD Water will be drawn from Municipal Corporation to meet the requirement of construction activities. Power will be drawn from BEST. Power requirement for operation of the proposed facility will be 65 KVA. DG set will be used only during power failure. HSD will be used as fuel inDG sets. No fuel shall be required in any other plant operation.

(xi) The area around the proposed Terminal has been surveyed for physical features and existing environmental scenario. The field survey has been done during Summer Season of year 2016 (March 2016- May 2016).

(xii) The cost of the project is:-

S. No.	Components	Rs. (in Crores)
1	Basic Engineering	0.72
2	Civil facilities	6.13
3	Mechanical	4.19
4	Electrical	0.95
5	Instrumentation	2.15

	<table><tr><td>6</td><td>Fire Fighting</td><td>2.87</td></tr><tr><td>7</td><td>Environmental Protection</td><td>1</td></tr><tr><td colspan="2">Total</td><td>18.01</td></tr></table>	6	Fire Fighting	2.87	7	Environmental Protection	1	Total		18.01
6	Fire Fighting	2.87								
7	Environmental Protection	1								
Total		18.01								
	<p>During presentation EAC noted that PP has collected the baseline data from March-May, 2016. After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry’s website) for preparation of EIA-EMP report:</p> <p>A. Additional TOR:</p> <ul style="list-style-type: none">ii. Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made.iii. One Month baseline data to be submitted along with March-May, 2016 baseline study.iv. Recommendation of SCZMA to be submitted. <p>It was recommended that ‘TORs’ along with Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the ‘Generic Structure of EIA’ given in Appendix III and IIIA in the EIA Notification, 2006.</p>									
21.7.11	<p>Additional Tankage 2 x 858 KL for Ethanol Tank and 2 x 2500 KL for Bio Diesel Tank at Darur Receiving Terminal, Athur&Kadaparai village, Erode Road Athur Post, Karur by M/s BHARAT PETROLEUM CORPORATION LIMITED– [IA/TN/IND2/61653/2017, IA-J-11011/79/2017-IA-II(I)]</p> <p>The project proponent informed following:-</p> <ul style="list-style-type: none">(i) The project involves Additional Tankage 2 x 858 KL for Ethanol Tank and 2 x 2500 KL for Bio Diesel Tank at Darur Receiving Terminal, Athur & Kadaparai village, Erode Road Athur Post, Karur by M/s Bharat Petroleum Corporation Limited.(ii) All Isolated storage & handling of hazardous chemicals are listed at S.N <u>6(b)</u> of Schedule of Environmental Impact Assessment (EIA) Notification under category 'B' but unit has taken Environmental Clearance earlier hence appraised at Central Level by Expert Appraisal Committee (EAC).(iii) Ministry had issued EC vide letter no. J-11012/11/96-IA.II(I) dated 17th June, 1997 to M/s BPCL for Kochin-Karur product pipeline.(iv) Existing land area is 220 acres. No additional Land will be required.(v) The water requirement is approximately 6 KL per Day from existing bore well.(vi) The power requirement is approximately 500 KVA From TANGEDCO and back up DG set (1X 750 KVA and 1X 300 KVA) (Already existing).(vii) Fuel - 20 KL HSD Tank for own consumption(Already existing).(viii) Ethanol and Bio diesel shall be received through tank lorries for blending into MS & Diesel and stored in storage tanks.									

	<p>(ix) There would not be any liquid effluent coming out of normal process. All the vents & drains shall be connected in a closed loop system. Any liquid effluent generated due to any leakage etc. shall be suitably treated in Effluent Treatment Plant/OWS. Hazardous waste (sludge) generated after cleaning of tanks in future (once in 5 years) shall be disposed through authorized vendors with the assistance of Pollution control Board/Neutralized by way of bio-remediation.</p> <p>(x) The capital cost of the additional tankage and allied facilities as proposed here is Rs.15 Crores and the estimated project completion time is 8 months from date of receipt of EC.</p> <p>After detailed deliberations, the Committee prescribed the following Specific TOR in addition to Generic TOR (refer Ministry's website) for preparation of EIA-EMP report:</p> <p>A. Specific TOR:</p> <ol style="list-style-type: none"> Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made. One Month baseline data to be submitted. Certified compliance report of the conditions in the existing EC, from the concerned Regional Office of Ministry shall be submitted. <p>It was recommended that 'TORs' along with Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.</p>
21.7.12	<p>Ethanol (1 x 858 KL) and bio diesel tanks (2x 2500 KL) at Irugur Village, Palladam Taluk, Coimbatore, Tamil Nadu by M/s BPCL [IA/TN/IND2/61752/2017, IA-J-11011/94/2017-IA-II(I)]</p> <p>PP did not attend the meeting. The EAC decided to defer the proposal.</p>
21.7.13	<p>Proposed expansion of pesticide intermediates & technicals within the existing premises of m/s. Gujarat Agrochem Ltd. Plot no. 2901 to 2906, GIDC, Panoli, Dist: Bharuch 394 116, Gujarat [IA/GJ/IND2/62032/2017, IA-J-11011/82/2017-IA-II(I)]</p> <p>The Project Proponent and accredited Consultant M/s. Aqua-Air Environmental Engineers Pvt. Ltd., gave a detailed presentation on the salient features of the project & informed that:</p> <ol style="list-style-type: none"> The proposal is for Proposed expansion of pesticide intermediates & technicals within existing unit at plot No. 2901 to 2906, GIDC Panoli, Dist. Bharuch, Gujarat by M/s. Gujarat Agrochem Limited . All Pesticide manufacturing unit are listed at S.N. 5 (b) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

- iii. Ministry had issued EC vide letter no. J-11011/4/2005-IAII dated 11th August, 2005.
- iv. Existing land area is 30000 m². No additional land will be used for proposed expansion.
- v. Industry will be developed Greenbelt in an area of 33% i.e. 9281.18 m² out of 30000 m² of area of the project.
- vi. The estimated project cost is Rs. 1612 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 1507 Lakhs and the recurring cost (operation & maintenance) will be about Rs. 50 Lakhs per annum.
- vii. Total employment will be 80% persons as direct & 20% persons indirect for proposed project. Industry purposes to allocate Rs. 15 Lakhs @ 2.5 % towards Corporate Social Responsibility.
- viii. It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance.
- ix. Total water requirement will be 764.56 m³/day of which fresh water requirement of 764.56 m³/day and will be met from GIDC Water Supply.
- x. Treated effluent of 431.88 KL/day will be sent to Common CETP of M/s. PETL, Panoli for further treatment and ultimately will be discharged to deep sea via FETP of M/s NCT (BEAIL) pipeline.
- xi. Power requirement will be 5000 KVA (Existing: 2300 KVA & Proposed: 2700 KVA) and will be met from DGVCL.
- xii. Existing unit has 4 boiler(8 TPH-2 Nos. & 10 TPH-2Nos.) (One Boiler 16 TPH standby). ESP/ Bag Filter are installed to control APCM.
- xiii. Water Scrubber & Caustic Scrubber will be installed to prevent air pollution from process vents.
- xiv. Details of Solid waste / Hazardous waste generation and its management.

SR. NO.	NAME OF WASTE	WASTE CATEGORY	TOTAL QTY.		MODE OF DISPOSAL
			Existing	Total Proposed	
1.	Used Lube Oil	5.1	10 Ltr/M	50 Ltr/M	Collection, Storage within Factory Premises, Transportation and Sale to MoEF Authorized Reprocessors
2.	Spent Solvents: Toluene	20.2	4.75 MT/M	200 MT/M	Reuse in the Factory Premises Or Incinerated at Common Incinerator.
3.	Process Distillation Residue & Residual Waste (After Effluent Treatment)	29.1	7,500 KG/M	71 MT/M 150 MT/M	Collection, Storage within Factory Premises, Transportation, Incineration at Common Incinerator Or Sent to Cement Industries for Co-Processing

	4.	MEE Salt	34.3	700 MT/M	1200 MT/M	Collection, Storage within Factory Premises, Transportation to TSDF
	5.	Packing Materials (a) Empty Bags (b) Barrel	33.3	110 Nos/M 35 Nos/M	1100 Nos/M 1350 Nos/M	Collection, Storage within Factory Premises, Transportation & Sale to GPCB Authorized Reprocessor
	6.	ETP Sludge	34.3	4,000 Kg/M	10 MT/M	Collection, Storage within Factory Premises, Transportation and Final Disposal at TSDF
	7.	Spent Carbon from ETP	34.3	200 Kg/M	400 Kg/M	Collection, Storage within Factory Premises, Transportation and Final Disposal at TSDF Or Sent to Cement Industries for Co-Processing
	8.	Aluminum Chloride (30%)	B-30	289 MT/M	1031 MT/M	Collection, Storage within Factory Premises & Sold to Authorized Vendor
	9.	Hydrochloric Acid (30%)	-	180 MT/M	202 MT/M	
	10.	Spent Sulphuric Acid	29.6	140.76 MT/M	528 MT/M	
	11.	NaCl Solution (18%)	-	600 MT/M	1091 MT/M	
	12.	Cu(OH) ₂ Powder	-	-	2.63T/M	

xv. Public Hearing for the proposed project has been conducted by the State Pollution Control Board. Not Applicable.

xvi. Details of Certified compliance report submitted by RO, MoEF&CC. Not Applicable

xvii. Following are the list of existing & proposed products:

SR. NO.	PRODUCT NAME	EXISTING CAPACITY (MT/MONTH)	TOTAL PROPOSED CAPACITY (MT/MONTH)
PESTICIDES INTERMEDIATES & TECHNICAL			

1	DV Acid Chloride		250
2	Meta Phenoxy Benzaldehyde		250
3	Cypermethrin (Tech.)		200
4	Permethrin (Tech.)		100
5	Alphamethrin (Tech.)	110	50
6	Metamitron (Tech.)		150
7	MBB Forcut		45
8	Ethofumesate (Tech.)		
9	Hydroxy Benzo Furan (HBF)		100
10	Lambda Cyhalothrin (Lambamethrin)		
11	Diethyl Phenyl Acetamide (Tech.) (DEPA)		
12	Pyriproxypene		
13	Tefluthrin		50
14	TransFluthrin		
15	Sodium Sulfite	200	487
16	Ammonium Chloride	60	217
17	Potassium Chloride	60	140
TOTAL		430	2039
BY PRODUCTS:			
1	Hydrochloric Acid (30%)	180	202
2	Spent Sulphuric Acid	140.76	528
3	Aluminium Chloride (30%)	289	1031
4	NaCl Solution (18%)	600	1091
5	Cu(OH) ₂ Powder	-	2.63
TOTAL		1209.76	2854.63
1	D.G. Sets	1000 KVA x 1, 625KVA x 1, 320KVA x 1	1010 KVA x 3, 725KVA x 3 625KVA x 1

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

A. Additional TOR:

- Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made.
- Certified compliance report of the conditions in the existing EC, from the concerned Regional Office of Ministry shall be submitted.

It was recommended that 'TORs' along with Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of

	EIA' given in Appendix III and IIIA in the EIA Notification, 2006.
21.7.14	<p>Expansion for manufacture various other synthetic organic chemicals (pharmaceutical bulk drugs & intermediates) with total production capacity of 287.77 TPM at at Survey No. 44/B, Village Naldhari, Siludi Valia Road, Taluka Valia in Bharuch District of Gujarat by M/s Intas Pharmaceuticals Ltd. [IA/GJ/IND2/62457/2017, IA-J-11011/41/2017-IA-II(I)]</p> <p>The project proponent informed followings:-</p> <ol style="list-style-type: none"> The project involves expansion for manufacture various other synthetic organic chemicals (pharmaceutical bulk drugs & intermediates) with total production capacity of 287.77 TPM at at Survey No. 44/B, Village Naldhari, Siludi Valia Road, Taluka Valia in Bharuch District of Gujarat by M/s Intas Pharmaceuticals Ltd. Products and capacities - Existing: 241 TPM [Synthetic organic chemicals – (Intermediates)], Proposed: 287.77 TPM [Synthetic organic chemicals – (Pharmaceutical bulk drugs & intermediates). All Synthetic organic chemicals industry projects, located outside the notified industrial area/estate are listed at Sl.No. 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC). The unit has not obtained Environmental Clearance (EC) for their existing unit as it was not covered under the EIA Notification-1994 regulated at the time of establishment in year 1986 and subsequent expansions. The total plot area for the existing plant is 28,567 m² . Unit has procured additional land of 4,800 m² adjacent to the existing plant, for the proposed expansion project. Hence, total area of the unit will increase up to 33,367 m². Water Requirement: 102 KLD (Existing: 39 KLD, Total: 141 KLD), Source of water supply: Borewell. Power Requirement & Source: 1,200 KVA (Existing: 475, Total: 1,675). Dakshin Gujarat Vij Company Ltd. (DGVCL). Fuel Requirement: Agrowaste&/Or Coal: 18 TPD, Furnace Oil: 60 Lit/hr (1.2 KL/Day), Diesel: 20 Lit/hr. The Manufacturing of all the proposed products will be carried out in batch process, which involves various unit processes like reduction, neutralization, hydrogenation, chlorination, hydrolysis, acidification etc. and various unit operations like drying, distillation, washing, filtration, extraction, purification, precipitation and centrifugation etc:- <ul style="list-style-type: none"> Gaseous generation: SO₂, NH₃, HCl gases Industrial Effluent generation: 86.8 KLD (Existing: 23.9 KLD, Total: 110.8 KLD) Domestic sewage generation: 17 KLD (Existing: 6 KLD, Total: 23 KLD) Multicyclone Separator followed by Bag filter followed by water scrubber is provided to existing steam boiler. Multicyclone Separator followed by Bag filter followed by water scrubber will be provided to proposed steam boiler. Two stage alkali scrubbers will be provided for control of SO₂ gas emission. Two stage acidic scrubber will be provided for control of NH₃ gas emission. Two stage alkali

	<p>scrubber will be provided for control of HCl gas emission.</p> <p>xiii. The cost of project is 70 Crore (Existing: 28.66 Crore, Total: 98.66 Crore).</p> <p>After detailed deliberations, the Committee prescribed the following Specific TOR in addition to Generic TOR (refer Ministry's website) for preparation of EIA-EMP report:</p> <p>A. Specific TOR:</p> <ol style="list-style-type: none"> Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made. Certified compliance report of the conditions in the existing CTO, from the concerned Pollution Control Board shall be submitted. <p>It was recommended that 'TORs' along with Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.</p>
21.7.15	<p>Proposal for 90 KLPD Grain based Distillery along with 3.0 MW of Co-Generation Power Plant at Village Ganora, Tehsil Ghatol, District Banswara (Rajasthan) by M/s Express Digital Payment Services Private Limited [IA/RJ/IND2/62460/2017, IA-J-11011/42/2017-IA-II(I)]</p> <p>The Project Proponent and the accredited Consultant M/s J M EnviroNet Pvt. Ltd., gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> The proposal is for 90 KLPD Grain based Distillery along with 3.0 MW of Co-Generation Power Plant at Village Ganora, Tehsil Ghatol, District Banswara (Rajasthan) by M/s Express Digital Payment Services Private Limited. All grain based distilleries □□30 KLPD are listed at Sl.No. 5(g) (ii) of Schedule of EIA Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC). It is reported that No National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors etc., falls within 10 km radius from the project site. List of Protected forests falls within 10 km radius from the project site as follows: <ul style="list-style-type: none"> KundliDudka Block PF (~3.5 km in ENE direction) BhoyarBorda PF (~4.5 km in ESE direction) Loharia Block A PF (~7.0 km in WSW direction) Gargiyamarga Block PF (~7.5 km in ENE direction) Loharia Block B PF (~8.4 km in West direction) SuliyaVenka Block PF (~8.5 km in North direction) List of Waterbodies within 10 km radius from the project site as follows: <ul style="list-style-type: none"> Budanpura Minor (~2.5 km in South direction) Mahi River (~5.7 km in NW direction)

- Mahi Canal (~7.2 km in East direction)
- ShakliyaNadi (~8.5 km in ESE direction)
- Som River (~9.0 km in NW direction)

v. Total plot area will be 20.0 acres (8.10 ha), out of which green belt will be developed in 6.6 acres, i.e. ~33% area. The Capital cost of the proposed project is Rs. 170.75Crores.

vi. Proposed project will provide employment to 100 persons.

vii. Following Products will be manufactured:

S. No.	Unit	Products & Capacity
1.	Grain Based Distillery	Product- ENA/ RS/ IMFL/CL (90 KLPD) By-product- DDGS, CO2
2.	Co- Generation Power Plant	Power (3.0 MW)

viii. The power requirement will be 2.1 MW, which will be sourced from proposed 3.0 MW Co-Generation Power Plant via a straight back pressure turbine. DG set of 500 KVA and 1000 KVA will be installed with adequate stake height.

ix. Biomass/ Indian Coal/ Pet coke fired boiler of 30TPH will be used. A stack of adequate height equipped with ESP/ bag filter will be installed with the proposed boiler to control the particulate and gaseous emissions. The EAC suggested to PP to use only Coal or Briquettes as a boiler fuel. The EAC did not agree with use of Pet coke. PP agree with it.

x. Total water requirement from ground water source will be 760 KLPD (746 KLPD for Plant Process and 14 KLPD Domestic & Others).

xi. The distillery will be based on Zero Effluent Discharge. No industrial waste water will be discharged from the plant. Grain Slops (Spent Wash) will be taken through Centrifuge Decanters for separation of Suspended Solids separated as Wet Cake & will then be treated in Multi Effect Evaporator followed by dryer.

xii. Solid waste from the Grain based operations generally comprises of fibres and proteins in the form of DDGS, which will be ideally used as Cattle Feed/ Poultry Feed/ Fisheries etc. The Yeast sludge will be added to the Wet Cake.

xiii. Ash from the boiler will be supplied to brick manufacturers & cement plant. Used oil & grease generated from plant machinery/Gear boxes as hazardous waste will be sold out to the CPCB authorized recycler.

The PP informed the EAC that Baseline data collection has been started since March, 2017 and requested for accepting the data to be collected during March- May, 2017. The EAC after examination of project details accepted the same. After detailed deliberations, the Committee prescribed the following Specific TOR in addition to Generic TOR (refer Ministry’s website) for preparation of EIA-EMP report:

A. Specific TOR:

i. Public hearing to be conducted and issues raised and commitments made by the

	<p>project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made.</p> <p>ii. CSR plan @ 2.5 % to be submitted.</p> <p>It was recommended that ‘TORs’ along with Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the ‘Generic Structure of EIA’ given in Appendix III and IIIA in the EIA Notification, 2006.</p>
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21.8 Any other

21.8.1	<p>Exploratory drilling of three wells (KHBN, MUAB & DOAA) in NELP-III Block AA-ONN-2001/1, A& AA Basin by M/s ONGC Ltd. Amendment in TOR [IA/TR/IND2/56143/2016, J-11011/168/2016- IA II(I)]</p> <p>During presentation PP informed that now they do not want amendment in TOR. The EAC recommended to the ministry to delist the proposal from the website.</p>
21.8.2	<p>Development Plan of Raniganj North CBM block West Bengal by M/s ONGC Ltd. Extension of validity of TOR [IA/WB/IND/62590/2013, J-11011/374/2013-IA-II (I)]</p> <p>Ministry had issued TOR to M/s ONGC Limited vide letter No. J-11011/374/2013-IA-II (I) dated 5th March, 2014 for Development Plan of Raniganj North CBM block West Bengal.</p> <p>Now PP has applied through online for extension of validity of TOR on 6th March, 2017. PP informed that EIA report of the block is already completed and process of public hearing is initiated and the compliance certificate of previous EC is yet to be obtained from the RO, MoEF&CC, Bhubneshwar. In view of the above context PP has requested to grant validity extension of TOR for a period of one year.</p> <p>The EAC noted that PP has applied for validity extension of TOR after the expiry of validity of TOR i.e. 5th March, 2017.</p> <p>After deliberation, the Committee recommended to the ministry may take a view in this regard.</p>
21.8.3	<p>Exploratory Drilling (6 wells) of M/s Oil & Natural Gas Corporation Ltd. in Bengal Onshore Block WB-ONN-2005/4, West Bengal under NELP- VII by M/s ONGC Ltd. – Amendment in EC reg. [IA/WB/IND2/62856/2014, J-11011/397/2011-IA II (I)]</p> <p>Ministry had issued Environmental Clearance to M/s ONGC Limited vide letter No. J-11011/397/2011-IA.II(I) dated 25th June, 2014 for Exploratory Drilling (6 wells) of M/s Oil & Natural Gas Corporation Ltd. in Bengal Onshore Block WB-ONN-2005/4, West Bengal under NELP- VII.</p>

	<p>During presentation PP informed that out of the six approved drilling locations, ONGC had drilled one well in village Patuli, Gram Panchayat-Baidyapur-II of Ranaghat-II, Block in Nadia district, West Bengal.</p> <p>Now, based on drilling result, three locations out of balance five locations are proposed to be slightly shifted for better prospect. PP also informed that all the shifted locations are within 5 km radius from approved locations, as submitted in the EIA report. Details of shifted drilling locations are as follows:</p> <table><tr><th>S.N</th><th>Location Name</th><th>Longitude</th><th>Latitude</th><th>Shift</th></tr><tr><td>1</td><td>Matikumra-A</td><td>23⁰ 11' 01.98"</td><td>88⁰ 36' 54.94"</td><td>3.2 Km</td></tr><tr><td>2</td><td>Taherpur-C</td><td>23⁰ 17' 34.771"</td><td>88⁰ 33' 55.365"</td><td>2.43 Km</td></tr><tr><td>3</td><td>BN-IA</td><td>22⁰ 48' 44.29"</td><td>88⁰ 30' 15.54"</td><td>0.95 Km</td></tr></table> <p>After detailed deliberation, the Committee recommended for above mentioned shifting of 3 drilling locations, as all three proposed drilling locations are within 5 km radius from approved locations, as submitted in the EIA report.</p>	S.N	Location Name	Longitude	Latitude	Shift	1	Matikumra-A	23 ⁰ 11' 01.98"	88 ⁰ 36' 54.94"	3.2 Km	2	Taherpur-C	23 ⁰ 17' 34.771"	88 ⁰ 33' 55.365"	2.43 Km	3	BN-IA	22 ⁰ 48' 44.29"	88 ⁰ 30' 15.54"	0.95 Km
S.N	Location Name	Longitude	Latitude	Shift																	
1	Matikumra-A	23 ⁰ 11' 01.98"	88 ⁰ 36' 54.94"	3.2 Km																	
2	Taherpur-C	23 ⁰ 17' 34.771"	88 ⁰ 33' 55.365"	2.43 Km																	
3	BN-IA	22 ⁰ 48' 44.29"	88 ⁰ 30' 15.54"	0.95 Km																	
21.8.4	<p>Expansion of Irugur storage installation at Ravathur PO, Irugur village, TalukaSulur, District Coimbatore, Tamilnadu by M/s Bharat Petroleum Corporation reg. amendment in EC. [IA/TN/IND2/28764/2014, J-11011/33/2015-IA-II(I)]</p> <p>Ministry had issued Environmental Clearance toM/s BPCL vide letter No. J-11011/33/2015-IA.II(I) dated 20th December, 2016 for Expansion of Irugur storage installation at Ravathur PO, Irugur village, TalukaSulur, District Coimbatore, Tamilnadu.</p> <p>During presentation PP informed that for supply of MS, HSD and SKO to 9 districts. PP proposed to have additional tankage of 1X 858 KL for Ethanol and 2X2500 KL for Bio Diesel, which will be used for blending 10 % of Ethanol with Motor Spirit (Petrol), as Ethanol doped motor gasoline lowers the level of Carbon Monoxide gas emission. Along side blending 10% of Biodiesel with High Speed Diesel (HSD) is also proposed.</p> <p>The committee felt that the proposed expansion does not seems to add any additional environmental concern as address by PP during obtaining of earlier EC. After detailed deliberation the EAC accepted the amendments as proposed by the PP.</p>																				
21.8.5	<p>Exploratory drilling of 6 wells of M/s ONGC Ltd. in PML Cauvery offshore, Cauvery Basin, Tamil Nadu – Extension of Validity of TOR reg. (IA/TN/IND/21049/2013, J-11011/19/2014-IA-II (I)]</p> <p>Ministry had issued TOR toM/s ONGC Limited vide letter No. J-11011/19/2014-IA-II (I) dated 23rd April, 2014 for Exploratory drilling of 6 wells of M/s ONGC Ltd. in PML Cauvery offshore, Cauvery Basin, Tamil Nadu. Now PP has applied through online for extension of validity of TOR on 23rd February, 2017.</p> <p>The EAC noted that as PP has applied for validity extension of TOR two months before the expiry of validity of TOR. After deliberation, the Committee recommended for extension of</p>																				

validity of exiting TOR upto 22.04.2018.
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29th March, 2017 (Day 3)

21.9 Consideration of Proposals: (Environmental Clearance)

21.9.1	<p>Expansion of synthetic organic products Plot No. 285,286/1,A-1-322/23, Phase II, GIDC Estate, Pardi, Valsad, Gujarat by M/s. Aarti Industries Ltd. (Amine Division)-reg EC [IA/GJ/IND2/55595/2016, J-11011/162/2016- IA II(I)]</p> <p>The Project Proponent and the non accredited Consultant M/s. Jyoti Om Chemical Research Centre Private Limited (High Court Stay)., gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> i. The proposal is for Expansion of synthetic organic products Plot No. 285,286/1, A-1-322/23, Phase II, GIDC Estate, Pardi, Valsad, Gujarat by M/s. Aarti Industries Ltd. ii. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 12th EAC meeting held during 23-24th August, 2016 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter noJ-11011/162/2016-IA II(I); dated 25th October, 2016. iii. All Synthetic organic chemicals located inside the notified industrial area/estate are listed at S.N. 5(f) under category 'B' but due to applicability of general condition (Critically polluted areas as notified by the Central Pollution Control Board(CPCB) and also falling project location within 5 km of Inter-State boundaries), it is treated as 'A' and appraised by Expert Appraisal Committee (I). iv. It is reported that no national parks, Protected Forests (PF) and Biosphere Reserves etc. lies within 10 km distance. Daman ganga river is flowing at 5 km distance from project site. v. Ministry had issued EC vide letter no. J-11011/471/2008-IAII(I) dated 14th November, 2008. As the Vapi industrial area was declared as critical polluted zone so that this was not converted to CCA. Existing EC got lapsed. vi. Total plot area of the unit is 15,078 m². Industry will be developed greenbelt in an area of 15 % i.e 2262 m². vii. The expected cost of proposed expansion will be Rs. 1500 Lacs. viii. The project will give direct employment to another around 148 people. ix. Ambient air quality monitoring was carried out at 8 locations during October, 2016 to December, 2016 and submitted baseline data indicates that ranges of concentrations of PM10 (75.5-97.2 µg/m³), PM2.5 (31.1-54.1µg/m³), SO2 (11.4-19.9 µg/m³) and NO2 (18.2- 38.7 µg/m³) respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 4.74µg/m³, 3.79 µg/m³ and 2.84 µg/m³ with respect to PM₁₀, SOxandNOx. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
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- x. Average daily fresh water consumption in existing unit is about 340 KL/Day. Proposed average daily fresh water consumption of the unit will be 354 KL/day and recovered water consumption will be 147.2 KL/day. So, total water consumption will be 694 KL/day (546.8 KL/day of fresh water + 147.2 KL/day of recycled water) after proposed expansion.
- xi. After proposed expansion, total effluent generation will be 148 KL/Day (Existing: 52 KL/Day + Proposed: 96 KL/Day). Existing and proposed industrial effluent will be treated in unit's own ETP & STP. 15 KL/Day of sewage waste water treated in sewage treatment plant and 133 KL/Day of effluent will be treated in ETP. Treated effluent will be subjected to R.O. followed by MEE to achieve zero liquid discharge. Hence, unit will adopt 'Zero' Liquid Discharge.
- xii. The power requirement of total project is 1525 KVA which will be fulfilled from DGVCL.
- xiii. Existing unit has two stacks of D.G sets having 11 m height each and two stacks of Steam Boiler having 30 m each. Now, the unit has proposed one boiler of 25 TPH and one D.G set of 625 KVA. Thus there will be proposed additional one boiler stack having height 30 m and one D.G set stack having height 11 m.
- xiv. Existing unit has two stacks of autoclave reactor and ONA day tank and Ammonia Recovery. Two stage scrubber use as APCM is attach to stack for control process emission. There will be no any additional stack of process emission stack.
- xv. ETP waste, MEE Salt and Calcium sludgewill be sent to TSDF site. Process waste containing organic complex will be sent to CHWIF. Discarded containers/ Bags will be sent to authorized recyclers. Used oil will be sold to registered reprocessors. Fly ash will be sent to fly ash handlers and Insulation waste will be sent to TSDF site for disposal.
- xvi. Public hearing is exempted as per Section 7 (i), III Stage (3), Para (i) (b) of EIA Notification 2006 as project is located in the notified industrial area.
- xvii. Following are the list of existing and proposed products:

No.	Name of Products	Quantity (MT/Month)		
		Existing	Proposed	Total
I	Amination Product	555	945	1500
1	4-Nitro Aniline (PNA) and/or	50		
2	2-Nitro Aniline(ONA) and/or	270		
3	2-Chloro 4 Nitro Aniline (OCPNA) and/or	20		
4	Para Chloro Ortho Nitro Aniline (PCONA) and /or	130		
5	Di Chloro Ortho Nitro Aniline (DCONA) and /or	10		
6	6-Chloro Ortho Nitro Aniline	0		

	7	4,4-Diamino Diphenyl Sulfone(DADPS)	0.0		
	Total.		555	945	1500
	8.	Co-product- Calcium chloride solution	767	806	1573
	9.	Co-product -Ammonia solution	--	152	152
	10.	Co-product-Ammonium sulphate Solution/Ammonium Sulphate Solid	--	114/40	114/40
	11.	Co Product-Sodium Chloride	--	709	709
	12.	Co Product-Copper Hydroxide/Copper oxide	--	77	77
	Total		767	1858	2625
	<p>During presentation the EAC noted that Consultant namely M/s. Jyoti Om Chemical Research Centre Private Limited is not accredited. In this regard consultant has informed that they have taken the stay from high court but consultant has not submitted the latest order of 14.03.2017 issued from high court. Greenbelt is not adequate.</p> <p>After deliberation, the Committee sought following additional information:</p> <ul style="list-style-type: none"> i. Revised layout plan to be submitted. ii. Latest order issued from Hon'ble Highcourt w.r.t. Accreditation to be submitted. <p>The proposal was deferred till the desired information is submitted. The above information shall be provided through online with the uploading of minutes on the website.</p>				
21.9.2	<p>Expansion of Synthetic Organic Chemicals Manufacturing Unit At SF No. 534, 535, 536, 757, 759, 768, 769, 770 of Village Sinagadibakkam, Taluka and District Kanchipuram, Tamil Nadu By M/s Stahl India Pvt. Ltd. -reg. EC. [IA/TN/IND2/34271/2015, J-11011/05/2016-IA II (I)]</p> <p>The project Proponent of the project is M/s Stahl India Pvt Ltd., and the accredited Consultant M/s Perfect Envirosolutions Pvt. Ltd., New Delhi, gave a detailed presentation on the salient features of the project and informed that:</p> <ul style="list-style-type: none"> i) The proposal is for Expansion of Synthetic Organic Chemicals Manufacturing Unit At SF No. 534, 535, 536, 757, 759, 768, 769, 770 of Village Sinagadibakkam, Taluka and District Kanchipuram, Tamil Nadu By M/s Stahl India Pvt. Ltd. 				

	<p>ii) The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 4th EAC meeting held during 11-12th February 2016 and recommended Terms of References (TORs) for the project. The TOR has been issued by Ministry vide letter no. J J-11011/05/2016-IA II (I) dated 5th April, 2016.</p> <p>iii) All synthetic organic chemical manufacturing unit located outside notified industrial are listed at S. No 5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).</p> <p>iv) Ministry has issued EC earlier vide letter no. F.No. J-11011/167/2009-IA-II (I); dated 03.06.2009 for Chemical Manufacturing unit to M/s Clariant Chemicals (India) Limited if Expansion case and Project proponent has applied for change of Name.</p> <p>v) Existing land area is 19.66 ha; No additional land will be used for proposed expansion. Industry has already developed a 58.55% green belt in the existing unit and shall continue to maintain the same after expansion and there would be thickening of plantation of 10 m alongside plant boundary with tall trees/ broad leaf index trees.</p> <p>vi) The estimated project cost is Rs 90 crore including existing investment of Rs 80 crores and the proposed cost of expansion for the unit are Rs 10 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs 533 Lakhs and the Recurring cost (operation and maintenance) will be about Rs 124 Lakhs per annum.</p> <p>vii) Total Employment will be 150 persons as direct & 100 persons indirect after expansion. Industry proposes to allocate Rs 50 Lakhs @ 5% towards Corporate Social Responsibility of the Rs 10 crores of Cost of Expansion of the project and shall continue with the recurring CSR of Rs 22 lakhs/ Annum.</p> <p>viii) It is reported that no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife corridors etc. lies within 10 km distance. There are no River/waterbody flowing in the 10km around the site. However, there are a number of Lakes/ Water Ponds in the area</p> <p>ix) Ambient air quality monitoring was carried out at 8 locations during March, 2016 to May, 2016 and submitted baseline data indicates that ranges of mean concentrations of PM₁₀(59.2 – 76.1 µg/m³); PM_{2.5} (26.7 – 34.3 µg/m³); SO₂(5.1 – 6.9 µg/m³), and NO₂ (19.9 – 25.6µg/m³), respectively. AAQ modelling study for point source emissions indicated that the maximum incremental GLCs after the proposed project would be 0.507 µg/m³, 1.12 µg/m³ and 1.22 µg/m³ with respect to PM₁₀, Sox and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).</p> <p>x) Total water requirement is 260 m³/day of which fresh water requirement of 193 m³/day and will be met from Surface Water Supply from nearby Village Panchayat.</p> <p>xi) Trade effluent of 54 KLD Will be treated through ETP, RO and MEE and reused in Plant Vessel Washings, Cooling Tower and Boiler and the plant will be based on Zero Liquid Discharge system.</p> <p>xii) Power requirement after expansion will be Licensed- 5000 HP and Connected- 3000 HP Including Existing Licensed- 5000 HP and Connected- 2640 HP and will be met from State Electricity Board. Existing unit has 2DG sets of 1000 KVA & 160 KVA Capacity, additionally 1DG set is used as stand by during power failure. Stack (height 14 m (1000 KVA) and 4 m (160 KVA) above ground level) will be provided as per CPCB norms to the proposed DG sets of 1000 KVA. In addition to the existing DG sets of</p>
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- 1000 KVA & 160 KVA and proposed 1000 KVA which will be used as standby during power failure.
- xiii) Existing units has 5 TPH & 0.5 TPH using Briquettes (Agro Based Fuel) and additional 6 TPH Briquette fired boiler will be installed which would use the same fuel and the 0.5TPH Boiler would be removed after expansion. Multi cyclone separator with Wet Bottom with stack height of 32 M above ground level will be installed for controlling the Particulate emissions (within statutory limit of 115 mg/ Nm³) for proposed 6TPH Boiler.
- xiv) For process emissions, essential air pollution control systems such as bag filters, scrubbers are installed. By installing air pollution control devices after expansion, emissions after expansion will not increase from the existing level, hence there is no increment in pollution load envisaged. Essential air emission standards will be maintained.
- xv) Approximately 490 kg/day municipal solid waste shall be generated during operation phase after expansion, out of which 40 kg of biodegradable waste will be used for vermicomposting and 450 kg will be given to authorized recyclers.
- xvi) Approximately 270.5 MT/Annum of Hazardous waste shall be generated after expansion phase. The sludge from ETP, MEE and solar pans is also included in this waste. The unit is having an agreement to dispose hazardous waste to the AFRF (Alternate Fuel Resource Facility) being operated by GEPIL at Ranipet, Tamil Nadu.
- xvii) STP sludge generated after expansion will be used as manure and excess given to farmers/nursery after dewatering/drying.
- xviii) Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 29th December 2016. The concerns were raised regarding Hazardous and Solid Waste Disposal methods, pollution load, tree plantation, Skill development training to the surrounding villagers, Land, water and air pollution and employment etc. The EAC noted that the issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report.
- xix) Certified Compliance Report for the unit is under process by the MOEF&CC RO, Chennai and the Scientist has visited the unit on 25th November 2016; Reminder Letter in reference to the report for the Regional Office scientist was given on 25th March 2017.
- xx) **Following are the list of existing and proposed products:**

Existing Products List as per Earlier EC of 2009

Sl. No.	Products	Quantity (TPA)
	Products	Existing capacity, (MT/ Annum), (Phase-1 & 2)
1.	Syntan	9600
2.	Bates	3600
3.	Fat liquor	3600

4.	Superplasticizer	2400
5.	Biocides	4800
6.	Uracil	180
7.	Acrylic Resin	-
8.	Urethane Resin	-
9.	Solvent based blending's	-
10.	Water based blending's	-
11.	Total	24180

Proposed Products and their Capacities for EC Expansion

Sl. No	Products		Quantity (TPA)
1.	Syntan	Formaldehyde Condensed Aromatic sulphonic acids, amines and their blends	26400
2.	Fat Liquor	Sulphited , Sulphonated,Phosphated and Saponified Vegetable oils, Synthetic oils and esters,Cationic fatty acid condensates	7200
3.	Super plasticizer	Condensed Naphthalene sulphonic acids	4800
4.	Biocides	Industrial Preservatives - Leather, Surface coating, Emulsion,Metal working fluids,Water treatment	8400

	5.	Acrylic Resin	Aqueous solution and emulsions of multi carboxylic polymers	4000
	6.	Urethanes	Polymers of Urethane monomers with Polyols	4000
	7.	Solvent based Blending's	Formulation of Solvent, Nitro Cellulose, Resins, Pigments, Casein, Plasticizer and Surfactants	6000
	8.	Water based blending's	Formulation of Pigments, Wax, Casein and Surfactants	10000
	Total			70800
	<p>EAC deliberated on the proposal and noted that PP has not submitted the certified compliance report of existing EC. Public hearing was conducted under the supervision of District Revenue officer. PP need to clarify whether District Revenue officer is equivalent to ADM level. The EAC also noted that TDS in plant site was observed 4311 mg/l, which is much high as compared to Drinking Water Standards i.e. 500 mg/l. After deliberation, the Committee sought following additional information:</p> <ol style="list-style-type: none"> Commitment to send Fly ash to registered brick manufacturing unit. Public hearing was conducted under the supervision of District Revenue officer. In this regard, PP need to clarify whether District Revenue officer is equivalent to ADM level. Commitment to plant 5000 trees as suggested. Compliance report duly certified from RO, MoEF&CC of Existing EC to be submitted. Clarification w.r.t ground water quality of plant site and its comparison with other ground water quality locations. <p>The proposal will be deferred till the desired information is submitted. The above information shall be provided through online with the uploading of minutes on the website.</p>			
21.9.3	<p>Expansion of Petrochemical manufacturing facility by adding Maleic anhydride (MAN) (1,160 MTPA) at Plot No. T-1, MIDC Taloja, Tehsil Panvel, District Raigad, Maharashtra by Mysore Petrochemicals Ltd. – reg EC [IA/MH/IND2/50477/2016, J-11011/77/2016- IA II(I)]</p> <p>The Project Proponent and the accredited Consultant M/s. Aditya Environmental Services Pvt. Ltd.,</p>			

	<p>gave a detailed presentation on the salient features of the project & informed that:</p> <ol style="list-style-type: none"> The proposal is for Proposed expansion of Petrochemical manufacturing facility by adding Maleic anhydride (MAN) (1,160 MTPA) at Plot No. T-1, MIDC Taloja, Tehsil Panvel, District Raigad, Maharashtra by M/s Mysore Petrochemicals Ltd. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 7th EAC meeting held during 28-29th April 2016 and recommended Terms of references (TORs) for the project. The TOR has been issued by Ministry vide letter No. J-11011/77/2016-IA II (I) dated 21st June 2016. All Petrochemical based processing (processes other than cracking &) are listed at S.N. 5 (e) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC). Ministry has issued EC earlier vide letter No. J-11011/986/2007-IA II (I) dated 2nd April 2008 for Plot No.: T-1, MIDC Taloja, Tehsil: Panvel, Dist.: Raigad, Maharashtra- 410208 by Mysore Petrochemicals Ltd. Existing land area is 12,406 m², which will be used for proposed expansion. Industry has already developed Greenbelt in an area of 10% i.e. 1240.6 m² out of 12,406 m² of area of the project. The estimated project cost is Rs. 20 Crores including existing investment of Rs. 89.29 Crores. Total capital cost earmarked towards environmental pollution measures is Rs. 825 Lakhs & the Recurring cost (operation & maintenance) will be about Rs. 225 Lakhs per annum. The EMP budget is proposed for both IGPL (sister concern)& MPCL. Total employment will be 5 No. of persons as direct & 25 No. of persons indirect after expansion. Industry proposes to allocate Rs. 60 Lakhs per annum towards Corporate Social Responsibility. Proposed CSR budget is for IGPL (sister concern) & MPCL. It is reported that Matheran Eco sensitive area is lies within 5 km distance. Nallah is flowing near to plant from North to South direction. Ambient air quality monitoring was carried out at 8 locations during March 2016 to May 2016 (Summer 2016) and submitted baseline data indicates that ranges of concentrations of PM₁₀ (50.5 µg/m³ to 69.2 µg/m³), PM_{2.5} (12.1 µg/m³ to 26.6 µg/m³), SO₂ (10.5 µg/m³ to 14.8 µg/m³), NO_x (10.2 µg/m³ to 14.7 µg/m³), CO (0.13 mg/m³ to 0.91 mg/m³) respectively. There is no direct fuel requirement as its steam demand shall be met from IG Petrochemicals limited. AAQ modeling study for point source emissions of IGPL indicates that the maximum incremental GLCs after the proposed expansion project would be PM₁₀- 0.15µg/m³, SO₂-3.65µg/m³, NO_x- 2.04 µg/m³. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS). Total fresh water requirement for expansion project is 5 m³/day.
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- xii. Treated effluent of 5 m³/day will be treated in Effluent treatment plant of IG Petrochemical (neighboring unit). Effluent generated will be recycle within plant.
- xiii. Power requirement after expansion will be 100 KW including existing 500 KW and will be met from captive generated/ supplied by MSEDCL. Existing unit has DG sets of 2000 KVA at IG Petrochemical Ltd which used as standby during power failure. No additional DG set proposed for expansion project. Stack height is provided as per CPCB norms to the existing DG sets of 2000 KVA which will be used as standby during power failure.
- xiv. Existing unit is fulfilling its steam demand from IG Petrochemical Ltd (sister concern). For the proposed expansion will also fulfill its steam demand from IG Petrochemical Ltd.
- xv. Process emission from flaker/ storage tank/ bagging machine are routed to scrubber. These vent vapors are scrubbed in the water generated in dehydration and recycled back to IGPL PA scrubber.
- xvi. Details of solid waste/ Hazardous waste generation and its management are as follows:

No	Type of waste	Categ ory	Quantity (TPM)		Total	Disposal
			Existing (as per CTO)	Proposed addl.		
	Non-Hazardous waste					
1	Debris during maintenance activities like insulation/packing material / scrap iron etc	-	1	0.5	1.5	By sale
	Hazardous waste					
2	Organic residue (Distillation back end residue)	1.2	210	70	280	Used as fuel in IGPL
3	Organic residue (from cleaning of wash water/residue storage tanks)	1.4	3	1	4	CHWTSDF Taloja

- xvii. Public hearing was exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.
- xviii. Following are list of existing and proposed products:

Existing & Proposed Additional capacities of Products

Sr. No.	Product	Existing Capacity (TPA) (*)	Proposed additional Capacity (TPA)	Total, (TPA)
1.	Maleic Anhydride	6,500	1,160	7,660

	<p>The Committee deliberated on the certified compliance report dated 01.03.2017 issued by the Regional Office, Nagpur of MoEF&CC and committee found that PP did not complied 02 Specific and 02 General conditions. The EAC also noted that PP has developed green belt in 500 m² area in place of 4094 m². In this regard PP informed that Industry has now developed Greenbelt in an area of 10% i.e. 1240.6 m² out of 12,406 m² of area of the project. During presentation PP confirms that they will strictly follow the conditions in future. The committee got satisfied with the submissions/commitments made by the PP regarding compliance of conditions of earlier EC.</p> <p>During presentation PP informed that now this unit has been merged with the neighbouring sister concerned unit namely M/s I G Petrochemicals Ltd. (IGPL) and the combined unit will be known as M/s I G Petrochemicals Ltd. (IGPL). In this regard PP requested to club the both unit and issue Environmental clearance in the name of M/s I G Petrochemicals Ltd. (IGPL).</p> <p>The EAC after critical examination recommended to the ministry to club the both units and issue EC in favour of M/s I G Petrochemicals Ltd. (IGPL) which is listed at Agenda item no. 21.9.5 in this EAC meeting.</p>
21.9.4	<p>Expansion of Synthetic Organic Resins at 133,134,135,136,164,165, Mahagujarat Industrial Estate, Moraiya, TalukaSanand, District Ahmedabad, Gujarat by M/s Macro Polymers Pvt. Ltd. -reg. EC [IA/GJ/IND2/32126/2015, J-11011/277/2015-IA II (I)]</p> <p>The project proponent and the accredited consultant M/s. T.R. Associates gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> The proposal is for Expansion of synthetic organic resin at Plot No.: 133, 134, 135, 136, 164 & 165, Mahagujarat Industrial Estate, Moraiya, Taluka: Sanand, District: Ahmedabad, Gujarat by M/s. Macro Polymers Pvt. Ltd. The project proposal was considered by the expert appraisal committee (Industry 2) in its 4thEAC meeting held during 11-12th February 2016and recommended terms of references (TORs) for the project. The TOR has been issued by Ministry vide letter No. J-11011/277/2015-IA II (I) dated 31st March, 2016. All synthetic organic chemical manufacturing unit locatedoutside the notified industrial are listed at at S.N. 5(F) of schedule of environmental impact assessment (EIA) notification, 2006 under category 'A' and are appraised at Central level by the Expert Appraisal Committee.(EAC). Total land area is 11, 971 m². Industry will be developed greenbelt in an area of 18.6% i.e.0.2221Ha (2221m²) out of 1.1971 Ha (11971m²) of area of the project. The estimated project cost is Rs. 14.30 Cr. including existing investment of Rs.9.05crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 55 Lacs and the recurring cost(operation and maintenance) will be about Rs. 55.5 Lacs.per annum. It is reported that, there is no national parks, wildlife sanctuaries, Biosphere reserves, Tiger/Elephant reserves, wildlife corridors etc. Lies within 10 km distance. RiverSabarmati is flowing at a distance a distance of 5.5 Kms. in west direction.

- vii. Ambient air quality monitoring was carried out at 9 locations during December, 2015 to February 2016 and submitted baseline data indicates that ranges of concentrations of PM10 ($68 \mu\text{g}/\text{m}^3$ to $82.3 \mu\text{g}/\text{m}^3$), PM2.5 ($22.1 \mu\text{g}/\text{m}^3$ to $34.8 \mu\text{g}/\text{m}^3$), SO₂ $4.8 \mu\text{g}/\text{m}^3$ to $12.8 \mu\text{g}/\text{m}^3$) and NO₂ ($4.3 \mu\text{g}/\text{m}^3$ to $20.1 \mu\text{g}/\text{m}^3$) respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be $84.8 \mu\text{g}/\text{m}^3$, $20.0 \mu\text{g}/\text{m}^3$ and $21.0 \mu\text{g}/\text{m}^3$ with respect to PM10, Sox and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards(NAAQS).
- viii. Total water requirement is 69 m³/day of which fresh water requirement of 24m³/day and will be met from Bore well.
- ix. Effluent will be treated through ETP (containing primary, secondary, tertiary treatment). Treated effluent (domestic + industrial) 45 m³/daywater will be reused in cooling tower make up requirement and on campus horticulture / green belt development.
- x. Power requirement after expansion will be 450 KW including existing 275KW and will be met from Uttar Gujarat Vij Company Ltd.(UGVCL) state power distribution corporation limited(SPDCL). Existing unit has 3 D.G. sets of (30 KVA, 125KVA, 180 KVA) capacities. No additional D. G. Sets will be installed after proposed expansion.
- xi. In the existing project, flue gas emission has been from stack attached to Thermic Fluid Heaters (10 Lakh Kcal/hr, 10 Lakh Kcal/hr & 1 Lakh Kcal/hr) in which Coal / Briquettes has been utilized as fuel. In proposed expansion existing Thermic Fluid Heater of 10 Lakh Kcal/hr will be upgraded to 20 Lakh Kcal/hr. Unit has provided Multi Cyclone Separator as an existing Air Pollution Control Measures to control the emission of particulate matter in the flue gas. For the proposed expansion bag filter will be installed as air pollution control unit in addition to existing cyclone separator for the Thermic Fluid Heater. Adequate stack height is provided for the proper dispersion of flue gases into atmosphere.
- xii. There is no process emission from any reaction of existing products as well as from proposed expansion products.
- xiii. Waste/Resin will be sent to CHWIF incineration facility/ Co – Processing. Used Oil will be sold to registered recycler. Discarded Containers/bags will be sold to authorized vendor. Waste and residue, Fillers residues and Inorganic process Sludge will be sold to Common Hazardous Waste Incineration Facility run by BEIL.
- xiv. Public hearing for the proposed project has been conducted by the state pollution control board on 06th December, 2016.
- xv. Following are the list of existing and proposed products.

Sr. No.	Name of Products	Production Capacity (MT/Month)		
		Existing as per CC & A	Proposed	Total after Expansion
1	Industrial Polymers	500	00	500
2	Resin Solutions (by Formulation)	2000	(-) 1500	500
3	Resin manufacturing by synthesis	Nil	3000	3000
	▪ Alkyd Resins			

	<ul style="list-style-type: none"> ▪ Polyamide Resins/Epoxy Hardners ▪ Polyester Resins ▪ Acrylic Resins ▪ Rosin Esters and Derivatives ▪ Epoxy Derivatives 			
4	Resin manufacturing by synthesis			
	<ul style="list-style-type: none"> ▪ Amino Resins(Melamine resin/ Urea resin/ Phenol Resins) ▪ Ketonic Resins 	Nil	500	500
By-product				
1	Caustic Lye (45%)	Nil	870	870

The EAC has deliberated upon the issues raised during the public hearing. The concerns were raised regarding absence of all Sarpach, CSR and plantation of trees etc. The EAC noted that the issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report. The EAC noted that base line data has been collected between December, 2015 to February, 2016 i.e. prior TOR application. PP was applied for TOR on 1st January, 2016. In this regard as all base line monitoring data are within the National Ambient Air Quality Standards (NAAQS), EAC accepted the baseline data collected during December, 2015 to February, 2016.

The Committee after detailed deliberations recommended the project for grant of Environmental Clearance subject to compliance of following specific conditions:

- i. 5000 trees shall be planted in five years in nearby villages. Survival rate of plants shall be reported to RO, MoEF&CC in 6 monthly compliance report.
- ii. All the commitments made during the Public Hearing/Public Consultation meeting held on 06th December, 2016 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
- iii. At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program shall be ensured accordingly in a time bound manner.
- iv. A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant.
- v. The unit shall adhere to Zero Liquid Discharge (ZLD).

	<ul style="list-style-type: none"> vi. Continuous online (24 x7) monitoring to be installed for flow measurement and measurement of pollutants within the treatment unit. Data to be uploaded on company's website and provided to the respective RO of MEF&CC, CPCB and SPCB. vii. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms. viii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
21.9.5	<p>Expansion of Petrochemical and synthetic organic chemicals manufacturing facility at Plot No. T-2, MIDC Taloja, Tehsil Panvel, District Raigad, Maharashtra by M/s I G Petrochemicals Ltd. (IGPL).- reg. EC [IA/MH/IND2/50347/2016, J-11011/73/2016- IA II(I)]</p> <p>The Project Proponent and the accredited Consultant M/s Aditya Environmental Services Pvt. Ltd., gave a detailed presentation on the salient features of the project & informed that:</p> <ul style="list-style-type: none"> i. The proposal is for Proposed expansion of Petrochemical and synthetic organic chemicals manufacturing facility at Plot No. T-2, MIDC Taloja, Tehsil Panvel, District Raigad, Maharashtra by M/s I G Petrochemicals Ltd. (IGPL) by IG Petrochemicals Ltd. ii. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 7th EAC meeting held during 28-29th April 2016 and recommended Terms of references (TORs) for the project. The TOR has been issued by Ministry vide letter No. J-11011/73/2016-IA II (I) dated 21st June 2016. iii. All Petrochemical based processing (processes other than cracking &) are listed at S.N. 5 (e) & all Synthetic organic chemicals industry are listed at S.N.5(f) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'A' and category 'B' are appraised at Central Level by Expert Appraisal Committee (EAC). iv. Ministry has issued EC earlier vide letter No. J-11011/994/2007-IA II (I) dated 3rd December 2009 for Plot No.: T-2, MIDC Taloja, Tehsil: Panvel, Dist.: Raigad, Maharashtra- 410208 by IG Petrochemicals Ltd. v. Total land area is 113,282 m² (land area of M/s Mysore Petrochemicals Ltd., included). Industry has already developed Greenbelt in an area of 10% i.e. 11,327.6 m² out of 113,282 m² of area of the project. vi. The estimated project cost is Rs. 350 Crores (cost of M/s Mysore Petrochemicals Ltd., included) including existing investment of Rs. 664.99 Crores. Total capital cost earmarked towards environmental pollution measures is Rs. 825 Lakhs & the Recurring cost (operation & maintenance) will be about Rs. 225 Lakhs per annum. The EMP budget is proposed for both IGPL (sister concern) & MPCL. vii. Total employment will be 30 No. of persons as direct & 150 No. of persons indirect after expansion. Industry proposes to allocate Rs. 60 Lakhs per annum towards Corporate Social Responsibility. Proposed CSR budget is for IGPL (sister concern) & MPCL. viii. It is reported that Matheran Eco sensitive area is lies within 5 km distance. Nallah is flowing near to plant from North to South direction. ix. Ambient air quality monitoring was carried out at 8 locations during March 2016 to May 2016 (Summer 2016) and submitted baseline data indicates that ranges of concentrations of

	<p>PM₁₀ (50.5 µg/m³ to 69.2 µg/m³), PM_{2.5} (12.1 µg/m³ to 26.6 µg/m³), SO₂ (10.5 µg/m³ to 14.8 µg/m³), NO_x (10.2 µg/m³ to 14.7 µg/m³), CO (0.13 mg/m³ to 0.91 mg/m³) respectively. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed expansion project would be PM₁₀- 0.15µg/m³, SO₂-3.65µg/m³, NO_x- 2.04 µg/m³. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).</p> <p>x. Total fresh water requirement for expansion project is 1328 m³/day (Since IG Petrochemicals Ltd., and Mysore Petrochemicals Ltd., are integrated units hence water requirement is shown as combined) Fresh water will be sourced from existing facility, which draws water from MIDC.</p> <p>xi. Treated effluent of 686 m³/day will be treated through Effluent Treatment Plant. Additional effluent generated will be recycle within plant.</p> <p>xii. Power requirement for expansion will be 2200 KW. Existing power requirement is 4950 KW and will be met from captively generated/ supplied by MSEDCL. Existing unit has DG sets of 2000 KVA Capacity which used as standby during power failure. No additional DG set proposed for expansion project. Stack height is provided as per CPCB norms to the existing DG sets of 2000 KVA which will be used as standby during power failure.</p> <p>xiii. Existing unit has 3 Nos. of 10 TPH Furnace oil based Fired boiler& 2 Nos of Hot oil heater. Cyclone separator with a stack of height of 55 m for Boiler & 31 m each for Hot oil heatersis provided for controlling the Particulate emissions (within statutory limit 150 mg/Nm³). For expansion project there will be 1 no. of Hot oil heater provided with 31 m of stack height & cyclone separator/ scrubber.</p> <p>xiv. Scrubbers will be used to control process emissions.</p> <p>xv. Biological sludge from waste water treatment will be sent for Landfilling. Debris during maintenance activities like insulation/packing material / scrap iron etc., will be sold/ sent to CHWTSDF. Still bottom from distillation will be used as fuel heater. Discarded containers /barrels/liners and Discarded bags used for hazardous chemicals will be washed and reused. Chemical sludge from waste water treatment, Flue Gas cleaning residue, Spent carbon and Discarded asbestos will be Sent to CHWTSDF. Spent catalyst and molecular sieve will be Sent back to CHWTSDF/to Manufacturer. Used oil / Spent oil will be sold to CPCB/MPCB authorized re-processor. Organic residue (Distillation back end residue) will be Used as fuel. Organic residue (from cleaning of wash water/residue storage tanks) will be sent to CHWTSDF Taloja.</p> <p>xix. Public hearing was exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.</p> <p>xx. During presentation PP also informed that now adjoining Petrochemical manufacturing facility by adding Maleic anhydride (MAN) manufacturing unit known as Mysore petrochemicals Limited, has been merged with M/s I G Petrochemicals Ltd. (IGPL) and now the combined unit will be known as M/s I G Petrochemicals Ltd. (IGPL). In this regard PP requested to club the both unit and issue Environmental clearance in the name of M/s I G Petrochemicals Ltd. (IGPL).</p> <p>xxi. Following is the combined list of existing and proposed products of Mysore petrochemicals Limited& M/s I G Petrochemicals Ltd. (IGPL):</p> <p>Existing product list:</p>	
Sr. No.	Product	Existing Product Quantity, TPA

1.	Phthalic anhydride (PAN)	169,110
2.	Benzoic acid	1000
3.	Power (Export to grid)	2.5 MW
4.	Maleic Anhydride	6,500
	Sub Total (Products)	1,76,610

Proposed Additional capacities of Products

Sr. No.	Product	Proposed additional Capacity, TPA
	Products	
1.	Phthalic anhydride (PAN)	53,000
2.	Benzoic acid	500
	Maleic Anhydride	1,160
3.	Power (Export to grid)	--
4.	Di ethyl phthalate (DEP)	12,600
5.	Di methyl phthalate (DMP)	
	Sub Total (Products)	67260
	By Products	
1.	Sodium sulphate	900
2.	Phthalic acid	800
3.	Monoester salts	3000
	Sub Total (By Products)	4700
	Total (Product & By Product)	71960

The Committee deliberated on the certified compliance report dated 20.02.2017 issued by the Regional Office, Nagpur of MoEF&CC and committee found that PP did not complied 03 Specific and 07 General conditions. The EAC also noted that PP has developed green belt in 10 % area only. During presentation PP requested to rebate from the mandatory condition of green belt as plant is located in notified industrial area. PP also confirms that they will strictly follow the conditions in future. Committee got satisfied with the submissions/commitments made by the PP regarding compliance of conditions of earlier EC. The EAC suggested to plant 5000 trees in each nearby five villages (5000 trees in each village). PP was agreed with it. The EAC after critical examination recommended to the ministry to club the both units and issue EC in favour of M/s I G Petrochemicals Ltd. (IGPL) which is listed at Agenda item no. 21.9.5 in this EAC meeting.

The Committee after detailed deliberations recommended the project for grant of Environmental Clearance subject to compliance of following specific conditions:

- 5000 trees shall be planted in five years in nearby villages. Survival rate of plants shall be reported to RO, MoEF&CC in 6 monthly compliance report.

	<ul style="list-style-type: none"> ii. At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Nagpur. Implementation of such program shall be ensured accordingly in a time bound manner. iii. A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant. iv. The unit shall adhere to Zero Liquid Discharge (ZLD). v. Continuous online (24 x7) monitoring to be installed for flow measurement and measurement of pollutants within the treatment unit. Data to be uploaded on company's website and provided to the respective RO of MEF&CC, CPCB and SPCB. vi. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms. vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
21.9.6	<p>Expansion of Sugar Cane Crushing Capacity (10,000 TCD to 20,000 TCD), Co-generation Power Plant (from 44 MW to 75 MW) & Molasses based Distillery (from 75 KLPD to 200 KLPD) at Village UgarKhurd, Taluka Athani, District Belgaum, Karnataka by M/s The Ugar Sugar Works Ltd.-reconsideration of EC [IA/KA/IND/4173/2012; J-11011/315/2012-IA-II(I)</p> <p>The Member Secretary informed the EAC that the proposal has been recommended in 13th Expert Appraisal Committee (Industry-2) meeting held during 26th to 27th September, 2016. During processing of the recommendations in the Ministry it has been observed that the project proponent will scrap the existing 30 KLPD distillery unit and a new unit of 155 KLPD will be installed in place of 30 KLPD unit.</p> <p>The EAC after examining the fact was of the view that EIA consultants and project proponent should inform complete details about the project at the time of appraisal by the Committee. The Committee underrated the performance of the EIA Consultant. The EAC after detailed deliberations recommended that the fact regarding 'scapping of 30 KLPD distillery unit and setting up of a new distillery unit of 155 KLPD in the existing premises' will be incorporated in the earlier minutes. The EAC stipulated following additional specific conditions while recommending the proposal again for grant of Environmental Clearance:</p> <ul style="list-style-type: none"> i. The scrap material will be sold to authorized recycler. ii. The PP will come a fresh if any additional land will be acquired for the operation of proposed unit.

21.10 Terms of Reference (TOR)

21.10.1

PROPOSED EXPANSION OF OIL FIELD CHEMICALS MANUFACTURING UNIT IN EXISTING PREMISES at Plot No. 208/1, GIDC Industrial Estate, Panoli-394 116, Tal: Ankleshwar, Dist: Bharuch, Gujarat by M/s HINDUSTHAN M-I SWACO LIMITED [IA/GJ/IND2/62481/2017, IA-J-11011/98/2017-IA-II(I)]

The project proponent informed following:-

(i) The project proponent involves proposed expansion of oil field chemicals manufacturing unit in existing premises at Plot No. 208/1, GIDC Industrial Estate, Panoli-394 116, Tal: Ankleshwar, Dist: Bharuch, Gujarat by M/s Hindusthan M-I Swaco Limited.

(ii) The list Products along with Production Capacity:

S. No.	Products	Production Capacity (MT/MONTH)		
		Existing	Proposed Expansion	Total
Group-1				
1	Sodium Lignite (Caustilig)	375	3000	3375
2	Resinex (Resinated Lignite) / Asphasol (Sulfonated Ashphalt			
3	XP-20N/Chrome Lignites			
Group-2				
4	Phenol Formaldehyde Resin	--	1200	1200
Group-3 (Oil-Field Chemicals Formulation)				
5	Surfactants	300	2000	2300
6	Emulsifiers			
7	Lubricants			
8	Biocides			
9	Corrosion Inhibitors			
10	De-Emulsifiers			

		11	Flow Improvers					
		Group-4 (Repacking & Relabeling)						
		12	Organophilic lignite – Versalig/ Versalig Aramco/HM VLIG/ HM VLIG A	--	2500	2500		
		13	Lignite/Humic Acid PowderTannathin/RheoFL/Lig H					
		14	Natural Asphalt - Versatrol M/ HM TROL M					
		15	Organophilic Clay - VG plus/ VG 69 / GEL H / GEL H plus					
		16	Resinex (Resinated Lignite)/ Asphosol (Sulfonated Ashphalt)					
		17	XP-20 N/ Chrome Lignite					
		Total		675	7500	8175		
		(iii) The Total water requirement will be 97.70 KL/Day after proposed expansion which will meet through GIDC Water Supply. The wastewater generation will be 22 KL/Day after proposed expansion. The Industrial wastewater generation (6 KL/Day) will be reused in process. Domestic wastewater (16 KL/Day) will be treated in STP and treated domestic wastewater will be reused in cooling purpose.						
		(iv) Hazardous Waste						
		S. No.	Name of waste	Category No.	Quantity			Method of disposal
					Existing	Additional	Total after Proposed Expansion	
		1	Waste Oil/Used Lubricatin	5.1	100 Ltrs/Month	100 Ltrs/Month	200 Ltrs/Month	Collection, Storage and sell to Registered

(vii) Fuel Requirement:-

S. No.	Fuel	Consumption	
		Existing	Total after Proposed Expansion
1	Natural Gas	2100 NM3 /Day	6000 NM3 /Day
2	HSD	18 Liters/Day	30 Liters/Hr

(viii) The total Cost for proposed project activity is Rs. 12.35 Crores.

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

A. Additional TOR:

- i. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.
- ii. ZLD plan to be submitted.
- iii. Submit specific product list with CIS number.
- iv. Revised layout plan w.r.t 10 m green belt along the periphery of plant premises to be submitted.

It was recommended that 'TORs' without Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.

21.10.2

Synthetic organic chemicals industry (dyes & dye intermediates; bulk by M/s. Stride Industries at Plot No. 7613/1, GIDC Eatate, Ankeslwar-393002, District: Bharuch, Gujarat.[IA/GJ/IND2/62490/2017, IA-J-11011/99/2017-IA-II(I)]

The Project Proponent and accredited Consultant M/s. Aqua-Air Environmental Engineers Pvt. Ltd., gave a detailed presentation on the salient features of the project & informed that:

- i. The proposal is for Proposed expansion of Bulk Drugs & its Intermediates within existing unit at plot No. 7613/1, GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s. Stride Industries.
- ii. All Synthetic organic chemicals industry (dyes & dye intermediates; bulk are located inside the notified industrial area are listed at S.N. 5 (f) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'B' but due to site is located in critically polluted area hence appraised at Central Level by Expert Appraisal Committee (EAC).
- iii. Existing land area is 1429.75 m²; No additional land will be used for proposed expansion. Industry will be developed Greenbelt in an area of 33% i.e. 472 m² out of 1429.75 m² of area of the project.
- iv. The estimated project cost is Rs. 200 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 50 Lakhs and the recurring cost (operation & maintenance) will be about Rs. 10 Lakhs per annum.
- v. Industry purposes to allocate Rs. 1 Lakhs @ 2.5 % towards Corporate Social Responsibility.
- vi. It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Narmada River is flowing at a distance a distance of 7 km in N direction.
- vii. Ambient air quality monitoring will be carried out at 8 locations during March-2017 to May-2017.
- viii. Total water requirement will be 9.95 m³/day of which fresh water requirement of 9.95 m³/day and will be met from GIDC Water Supply.
- ix. Treated effluent of 3.17 KL/Day will be sent to CETP, Ankleshwar for further treatment & final disposal.
- x. Power requirement will be 100 KVA (Existing: 30 KVA & Proposed: 70 KVA) and will be met from DGVCL.
- xi. Existing unit has Steam boiler(600 kg/hr). Unit has proposed Steam boiler (1.5 T/hr). Multicyclone Separator, Bag Filter & Scrubberwill be install to control APCM.
- xii. Two Stage Scrubber will be installed to prevent air pollution from process vents.
- xiii. Details of Solid waste / Hazardous waste generation and its management are as follows:

Sr. No.	Type of Waste	Schedule Category	Quantity			Disposal Method
			Existing	Additional	Total	
1	Used Oil	5.1	1 MT/Month	0.20 MT/Month	1.20 MT/Month	Collection, Storage, Transportation & sale to GPCB authorized recycler

	2	Discarded Containers/ Bags/ Carboys	33.1	1.024 MT/Month	1.0 MT/Month	2.024 MT/Month	Collection, storage, transportation, decontamination & sell to GPCB authorized vendors
	3	ETP sludge	35.3	--	3 MT/Month	3 MT/Month	Collection, Storage, Transportation & Disposal to TSDF site
	4	Distillation Residue	20.3	--	2 MT/Month	2 MT/Month	Collection, Storage, Transportation & given to cement industries for co-processing or Disposal at common incineration site
	5	Organic Residue	--	--	4 MT/Month	4 MT/Month	
	6	Inorganic Solid Waste	--	--	3 MT/Month	3 MT/Month	Collection, Storage, Transportation & Disposal at nearest TSDF site
	7	Spent Carbon	36.2	--	0.5 MT/Month	0.5 MT/Month	Collection, Storage, Transportation & given to cement industries for co-processing or Disposal at TSDF site

- i. Following are the list of existing & proposed products:

Sr. No.	Product	Existing Capacity (MT/Month)	Additional Capacity (MT/Month)	Total Capacity (MT/Month)
1.	Potassium Sulphate	80	--	80
2.	Sodium Nitrate	80	--	80
3.	Tri Sodium Phosphate	80	--	80
Proposed				
4.	Doxofylline and its Intermediates	--	10	10
5.	Acebrophylline and its intermediate	--		
6.	Levosulpride and its intermediate	--		
7.	Amisulpride and its intermediate	--		
8.	Duloxetine Hydrochloride and its Intermediate	--		
9.	Celecoxib and its Intermediate	--		
10.	Lacosamide and its Intermediate	--		
11.	Diclofenac Sodium and its Intermediate	--		
12.	Pantoprazole Sodium and its Intermediate	--		
13.	Venlafaxine Hydrochloride and Its Intermediate	--		
14.	Sevelamar Hydrochloride and its intermediates	--		
15.	R&D	--	0.5	0.5
Total		240	10.5	250.5

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

A. Additional TOR:

- i. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.

	<p>ii. Layout plan with 5 m wide green belt along the periphery of plant premises to be submitted.</p> <p>It was recommended that 'TORs' without Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.</p>
21.10.3	<p>Expansion of Pesticides industry and pesticide specific intermediates (excluding formulations) Plot No. SPM-28, Sterling SEZ & Infrastructure Ltd., At & Po: Sarod, Tal: Jambusar, District: Bharuch by M/s PI Industries Ltd. [IA/GJ/IND2/61999/2017, J-11011/511/2010-IA.II(I)]</p> <p>The Project proponent and the accredited Consultant M/s San Envirotech Pvt. Ltd., Ahmedabad gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> The proposal is for Expansion for manufacturing of pesticides and its intermediate at Plot No. SPM-28, Sterling SEZ & Infrastructure Ltd., At & Po: Sarod-392180, Tal: Jambusar, District: Bharuch, Gujarat by M/s M/s. PI Industries Ltd. All Pesticides industry and pesticide specific intermediates (excluding formulations) units producing technical grade pesticides are listed at S.N. 5(b) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'A' and are appraisal at Central Level by Expert Appraisal Committee (EAC). Ministry has issued EC earlier vide letter no. J-11011/511/2010-IA-II(I); dated 4th April, 2011 for Pesticides Manufacturing Plants (7000 MTPA) at Plot no. SPM 28, Sterling SEZ, Village Sarod, Tehsil Jambusar, District Bharuch Gujarat Unit to M/s PI Industries Ltd. Existing land area is 90286 m², additional 42000 m² land will be used for proposed expansion. Industry will be developed Greenbelt in an area of 33% area of the project. The estimated project cost is Rs 600 Crore including existing investment of Rs 393 corers. Total capital cost earmarked towards environmental pollution control measures is Rs 50 Crore and the recurring cost (operational and maintenance) will be about Rs 20 Crore per annum. Total Employment will be 350 Persons as direct & 250 persons indirect after expansion. Industry proposes to allocate Rs 10.35 Crore @ of 5 % towards Corporate Social Responsibility. It is reported that No National parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10km distance. River Mahi is flowing at a distance of 2.5 km from the project site. Total water requirement is 2973 m³/day of which fresh water requirement of 2839 m³/day and will be met from SEZ water supply. Wastewater generation will be increased from 1060 m³/day to 1385 m³/day. The wastewater from process will be divided into three streams for treatment based on the

- quality of the effluent stream. One stream will be directly incinerated in incinerator, high TDS & high COD stream will be taken to MEE and dilute stream from process will be taken to ETP. Cooling tower blow down, boiler blow down and DM plant reject will be sent to RO. RO reject will be further sent to ETP. Domestic effluent will also be treated into ETP. Entire quantity of treated water from ETP will be disposed off into SEZ common sump which will be finally connected with ECP channel.
- x. Power requirement after expansion will be 25000 KVA including existing 12625 KVA will be made from DGVCL state power Distribution Corporation limited. Existing unit has currently no DG sets and proposed to add 06 DG sets with capacity of 4000 KVA each are used as stand by during power failure. Stack (height 11M) will be provided to 6 DG sets as per CPCB norms.
- xi. Existing unit has 51 TPH 03 nos. FO/NG fired boiler and Thermic Fluid Heater (01 Nos.). No APCM is required Stack of height of 54m being provided by unit. After expansion, unit will be installed three nos of additional boilers, 1 nos of thermic fluid heater and 6 nos of D. G. sets with capacity of 4000 kVA each. Stack height of Common stack of Boilers will be 54 M and for thermic fluid heater 20M stack height will be provided.
- xii. Alkali Scrubbers will be provided to control process emissions.
- xiii. Details of solid waste/hazardous waste generation & its management are as follows:

Sr. No.	Type of Waste	Category of Waste as per HWM Rules 2016	Existing Quantity	Total after Expansion Quantity	Disposal facility
1.	ETP Sludge & MEE salt	35.3	395.41 MTPM 1216.67 MTPM	900 MTPM 2700 MTPM	Collection, Storage, Transportation & Disposal in approved common TSDF/co-processing.
2	Used Oil	5.1	15.16 KL/month	25 KL/month	Collection, storage and reused or sold to registered refiners
3	Residues after distillation, fractionation, condensation recovery etc./Solvent Distillation Residue	20.3	243.33 MTPM	20000 MTPM	Collection, storage, & Incineration in house or in approved common incineration facility or co-Processing / incineration
4	Spent Carbon	36.2	16.67 MTPM	50 MTPM	Collection, storage & Incineration in house or in approved common incineration facility or Send to Authorized recyclers/ re-processors

						for recovery/co-processing
	5	Process Waste (Process Waste Sludge/residue)	29.1	60.76 MTPM	1800 MTPM	Collection, storage, & Incineration in house or in approved common incineration facility or Co-processing/co-incineration facility
	6	Incineration Ash	37.2	456.25 MTPM	1000 MTPM	Collection, Storage, Transportation & Disposal in approved common TSDF site.
	7	Discarded containers / drums/ liners	33.1	30.41 MTPM	300 MTPM & 50000 NOSPM	Recycled or sold to authorized scrap dealer or end users or disposal in approved common TSDF/incineration in-house as well approved common facility or sent for common decontamination facility
	8	Date Expired off specification products	29.3	0.91 MTPM	100 MTPM	Collection, storage, & Incineration in house or in approved common incineration facility/co-processing
	9	Spent/Crude Solvent	29.4	121.67 MTPM	30000 MTPM	Collection, storage, & Incineration in house or at authorized CHWI facility or Co-processing or reuse by in-house solvent distillation. In Some of the product where purity requirements are very high, recycling is not possible due to build-up of moisture or some specific impurity, such solvents are

						required to be sent to authorized as well as CPCB registered solvent distillation unit. Sold to GPCB Authorized recyclers/distillators/re-processor
10.	Spent Catalyst	29.5	--	50 MTPM	Collection, storage & Incineration in house or in approved common incineration facility or co-processing, Send to Authorized recyclers/re-processors for recovery or sent for regeneration to supplier.	
11.	Spent Acid	29.6	--	1500 MTPM	Collection, storage, & Incineration in house or in approved common incineration facility or co-processing, Send to Authorized recyclers/re-processors, reuser	
12.	Spent Resin	34.2	0.125 MTPM	2 MTPM	Collection, storage, transportation and disposal in approved common TSDF	

xiv. Following are the list of existing & proposed products:

Sr. No.	Common Name	IUPAC Name	Quantity (MTPA)		
			Existing	Proposed change	Total
1	CPFK	1-cyclopropy-2(2fluorophenyl) ethanone	55	-55	00
2	CNZ	Cyanazine	70	-70	00

	3	AE 473	(2-{2-chloro-4-mesyl-3-[(RS)]-tetrahydro-2-furylmethoxymethyl}benzoyl)-cyclohexane-1, 3-Dione)	50	-50	00
	4	IB CZ	(4-chlorophenyl)methyl N-(2,4-dichlorophenyl)-1H-1,2,4-triazole-1-ethanimidothioate	40.2	-40.2	00
	5	MY-71	3-[1-(3,5-dichlorophenyl)-1-methylethyl]-6-methyl-5-phenyl-2,3-dihydro-4H-1,3-oxazin-4-one	10	-10	00
	6	MY-100	3-[1-(3,5-dichlorophenyl)-1-methylethyl]-3,4-dihydro-6-methyl-5-phenyl-2H-1,3-oxazin-4-one	25	-25	00
	7	PF D	N-{3-isobutyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl}-1,3,5-trimethylpyrazole -4-carboxylic amide	100	-100	00
	8	TLF	Tolfenpyrad	225	-225	00
	9	TBFN	4-chloro-N-[[4-(1,1-dimethylethyl)phenyl]methyl]-3-ethyl-1-methyl-1H-pyrazole-5-carboxamide	120	-120	00
	10	PYCL	1-(3-chloro-4,5,6,7-tetrahydropyrazolo[1,5-a]pyridin-2-yl)-5-[methyl(prop-2-ynyl)amino]pyrazole-4-carbonitrile	150	-150	00
	11	LAKE PALACE	3-[[[(2,5-dichloro-4-ethoxyphenyl)methyl]sulfonyl]-4,5-dihydro-5,5-	240	-240	00

			dimethylisoxazole			
	12	OCTOPUSS Y	3-[[[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]methyl]sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole	1500	-1500	00
	13	2C6SMT	3-Chloro-2-Methylthioanisole	140	-140	00
	14	DMI	2,6-dimethylindanone	600	-600	00
	15	ORST	Orysastrobins	170	-170	00
	16	PCM	N-(2 Chloro-4 Fluoro-5-((ethoxy carbonyl)-amino)-benzoyl)-N-iso-propyl-N-methyl-sulfamid	1000	-1000	00
	17	ACH	3-(difluoro methyl)-1-methyl-1H-pyrazole-4-carboxylic acid	200	-200	00
	18	Star-1	Pethoxamid Technical	48	-48	00
	19	CFPA	3,4-dichloro-5-fluorobiphenyl-2-amine	300	-300	00
	20	AMB	3,4,5-Trifluoro-aminobiphenyl	100	-100	00
	21	PRZ	Difluoro Methyl-N-Methyl Pyrazolic acid	300	-300	00
	22	DCPA	1,3-dimethyl-5-chloro-4-pyrazolylcarboxylic acid chloride	360	-360	00
	23	CMTB	2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy) methyl] benzoic acid	300	-300	00
	24	ZXMD	Zoxamide	100	-100	00
	25	AZST	methyl (E)-2-{2-[6-(2-cyanophenoxy) pyrimidin-4-	100	-100	00

		xyloxy]phenyl}-3-methoxyacrylate			
26	CDMB	4-chloro 2,6-dimethyl-bromo benzene.	300	-300	00
27	PMT	Phosmet	100	-100	00
28	Flub/SOD	N-(2-Methylsulfinyl-1,1-dimethyl-ethyl)-N'-{ 2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl) ethyl]phenyl} phthalamide	300	-300	00
29	CCITM	Disodium cyanocarbonodithioimidate	140	-140	00
30	IBA	3-(2-Methylpropyl)aniline	50	-50	00
31	FNZQ	4-tert-Butylphenethyl quinazolin-4-yl ether	100	-100	00
32	DMAI	(1R,2S) and (1S,2S)-2,6-dimethyl-2,3-dihydro-1H-inden-1-amine	200	-200	00
33	Tembutrion	2-({2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy) methyl] phenyl} carbonyl)cyclohexane-1,3-dione	300	-300	00
34	CCMP	2-Chloro-5-(chloromethyl)pyridine	300	-300	00
35	HFMOP	1,1,1,3,3,3-hexafluoro-2-methoxypropane	300	-300	00
36	MDO	2,2-Dimethyl-4-methylidene-1,3-dioxolane	100	-100	00
37	FMTQ	2-Ethyl-3,7-dimethyl-6-(4-(trifluoromethoxy)phenoxy)qui	100	-100	00

		nolin-4-yl methyl			
	Insecticides and Intermediates		00	4800	4800
	1	Amino Triazines			
	a	THM	Bis (1,2,3 - Trithiacyclohexyl Dimethyl Ammonium) Oxalate		
	2	Diamides			
	a	Flub	3-Iodo-N2-(2-Methyl-1-(Methyl sulfonyl) Propan-2-yl)-N1-(2-Methyl-4-(Perfluoropropan-2-yl) phenyl) Phthalamide		
	b	SOD	N2-(2-Methyl-1-(Methylsulfinyl)propan-2-yl)-N1-(2-Methyl-4-(perfluoropropan-2-yl) phenyl) phthalamide		
	c	MMTPA/S AA	2-Methyl 1-Methylthio-2-Propanamine		
	3	Hydazinopyridine			
	a	CHDP	3-Chloro-2-Hydrazino Pyridine		
	4	Nicotinamides			
	a	TFNA	2,6-Dichloro-4-(Trifluoromethyl) pyridine-3-Carbonitrile		
	5	Nitroguanidines			
	a	BNHT	5-Benzyl-1-Methyl, 2-Nitro 2 imino-tetrahydro 1, 3, 5-trizan.		
	b	AETF	3-Amino methyl Tetrahydrofuran		

		6	Organophosphorus Insecticide					
		a	MTN	3-(DimethoxyPhosphinothioylsulfanyl methyl) -5-Methoxy-1,3,4-thiadiazol-2-one				
		7	Phenyl organothiophosphate					
		a	PTF	(RS)-(O-2,4-Dichlorophenyl O-Ethyl S-Propyl Phosphorodithioate)				
		8	Phthalimides					
		a	PMT	Phosmet				
		9	Pyrazole-diamides					
		a	Q4039	3-Methyl Antranilic Acid				
		b	YB449	3-Methyl-2-Nitrobenzoic acid				
		c	DPX	2-Amino-5-Chloro-N,3-Dimethyl Benzamide				
		d	BPCA	3-Bromo-1-(3-Chloropyridin-2-yl)-1H-pyrazole-5-Carboxylic Acid				
		10	Quinazoline					
		a	FNZQ	3-[2-[4-(1,1-Dimethylethyl) phenyl] ethoxy] Quinazoline				
		11	Quinolinyln carbonate					
		a	FMTQ	2-Ethyl-3,7-Dimethyl-6-[4-(trifluoromethoxy) phenoxy]-4-Quinolyl Methyl Carbonate				
		12	Thiazolidines					
		a	CCITM	Dimethyl CyanoDithioimido				

		Carbonate			
b	CCMP	2-Chloro-5-Chloromethyl Pyridine			
Herbicides and Intermediates			00	5650	5650
1	Alkylazines				
a	DMI	2,6-Dimethylindanone			
b	DMAI	2,6-Dimethyl-2,3-Dihydro-1H- inden-1-amine			
2	Amide-triazolones				
a	IAT	3H-1,2,4-Triazol-3-one, 4- amino-2,4-dihydro-5-(1- methylethyl)-			
3	Aryloxyphenoxy propionates				
a	FPES	Ethyl(2R)-2-{4-[6-chloro-1,3- benzoxazol-2-yl)oxy] phenoxy} propanoate			
4	Benzoyl cyclohexanediones				
a	AE 473	(2-{2-chloro-4-mesyl-3-[(RS)]- tetrahydro-2- furylmethoxymethyl} benzoyl)-cyclohexane-1, 3- Dione)			
b	Tembutrition	2-{2-chloro-4- (methylsulfonyl)-3-[(2,2,2- trifluoroethoxy)methyl]benzoyl }cyclohexane-1,3-dione			
c	747 Either	2-Chloro-4-(methyl sulfonyl)- 3-[(2, 2, 2-trifluoroethoxy) methyl] Benzoic acid			

	d	2C6SMT	3-Chloro-2-Methylthioanisole				
	5	Furanones					
	a	FLURT	5-(Methylamino)-2-Phenyl-4-[3-(Trifluoromethyl) phenyl] furan-3(2H)-one				
	6	Intermediate of Herbicide					
	a	MTAA	Methyl (methylthio) Acetate				
	7	Active nitrile Herbicide					
	a	PYCL	1-(3-Chloro-4,5,6,7-tetrahydropyrazolo [1,5-a] pyridin-2-yl)-5-[methyl (prop-2-ynyl)amino] pyrazole-4-carbonitrile				
	8	Oxazinones					
	a	MY-100	3-[1-(3,5-dichlorophenyl)-1-methylethyl]-3,4-dihydro-6-methyl-5-phenyl-2H-1,3-oxazin-4-one				
	9	Oxazoles					
	a	Lake Palace	3-[[[(2,5-dichloro-4-ethoxyphenyl) methyl] sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole				
	10	Oxazolidinediones					
	a	KPP	Pantoxazone				
	11	Phosphinates					
	a	MPBS	Methyldichlorophosphine				
	12	Pyrimidinediones					

		a	PCM	N-(2 Chloro-4 Fluoro-5- ((ethoxy carbonyl)-amino)- benzoyl)-N-iso-propyl-N- methyl-sulfamid				
		b	EATB	Ethyl 3-amino-4,4,4- trifluorobut-2-enoate				
		13	Pyrimidinyloxybenzoic acid					
		a	Bispyribac sodium	2,6-bis(4,6- dimethoxypyrimidin-2- yloxy)benzoic acid				
		14	Pyrimidinylsulfonyleurea					
		a	FRSF	N,N-Dimethyl-2-[N-[N-(4,6- dimethoxy pyrimidin-2-yl)- Amino carbonyl] Amino sulfonyl]-4-(N-formylamino) benzamide, sodium salt				
		b	ESPS	3-ethylsulfonyl-2-pyridine sulfonamide				
		15	Sulfonylurea					
		a	AMSB(Mes ylamide)	Methyl 2-Amino-4- {[(methyl sulfonyl)amino] methyl} benzoate				
		b	OTMA	2-(TrifluoroMethoxy) Aniline				
		16	Triazines					
		a	CNZ	Cyanazine				
		17	Triazopyrimidine sulfonamides					
		a	DTPBS	N-(5,8-Dimethoxy [1,2,4] Triazolo [1,5-c] pyrimidine-2- yl)-2-Fluoro-6-(Trifluoro Methyl) Benzene Sulfonamide				

	Fungicides and intermediates		00	3550	3550	
	1	Active amide Fungicides				
	a	SSF-126/OXIME				(2E)-2-(methoxyimino)-N-Methyl-2-(2-Phenoxy Phenyl) Acetamide
	b	TRFRN				N,N'-[1,4-Piperazinediyl-bis(2,2,2-Trichloro Ethylidene)]-Bis-[Formamide]
	c	FNXL				N-(1-Cyano-1,2-Dimethylpropyl)-2-(2,4—Dichlorophenoxy) Propanamide
	d	MIPD				(1E)-1-(2,5,5-Trimethyl-1,3-dioxan-2-yl) Propane -1,2-dione 1-(O-Methyloxime)
	e	ORST				Orysastrobin
	2	Benzamides				
	a	ZXMD				(RS)-3,5-Dichloro-N-(3-Chloro-1-Ethyl-1-Methyl-2-Oxopropyl)-p-Toluamide
	3	Carboxamides				
	a	AMB				3,4,5-Trifluoro-Amino biphenyl
	4	Organophosphates				
	a	KTZ(Kitazin)				S-benzyl O,O-DiisopropylPhosphorothioate
	5	Pyridine Fungicides				
	a	CTPE				2-[3-Chloro-5-(Trifluoromethyl) Pyridin-2-yl]

		Ethanamine			
6	Pyrimidines				
a	AZST	Methyl (E)-2-{2-[6-(2-Cyanophenoxy) pyrimidin-4-yloxy] phenyl}-3-Methoxy acrylate			
7	Quinoxalines				
a	CMTH	4-(Methoxy-6-(trifluoro methyl)-1,3,5-triazin-2-amine			
8	Triazoles				
a	IPCZ	(1RS, 2SR, 5RS; 1RS, 2SR, 5SR)-2-(4-Chlorobenzyl)-5-Isopropyl-1-(1H-1,2,4-triazol-1-ylmethyl) Cyclopentanol			
b	FTL	1-(2-Fluorophenyl)-1-(4-Fluorophenyl)-2-(1, 2, 4-Triazol-1-yl) Ethanol			
c	FOX	2-(2-Fluorophenyl)-2-(4-Fluorophenyl) Oxirane			
d	IBCZ	(4-Chlorophenyl) Methyl N-(2,4-Dichlorophenyl)-1H-1,2,4-Triazole-1-Ethanimidothioate			
Fine Chemicals			00	7500	7500
1	Substituted Anthraanilic acid				
a	ACBM	2-Amino-3-Chlorobenzoic Acid Methyl Ester			
2	Substituted 1,2,4-Triazole				
a	AMT	5-Amino-1,2,4-Triazole-3-thiol			
3	Substituted tetrahydropyran				

		a	ATHP	1-(Tetrahydropyran-4-yl) Ethanone			
		4	Dimethyl halo substituted benzene				
		a	CDMA	4-Chloro-2,6-Dimethyl Aniline			
		b	CDMB	4-Chloro 2,6-Dimethyl-Bromo benzene.			
		5	Substituted cyclopropylethanone				
		a	CPFK	1-Cyclopropy-2(2 Fluorophenyl) Ethanone			
		6	Substituted alkyl diamine				
		a	DAEEA	N,N'-Bis(2-Hydroxyethyl) Ethylene Diamine			
		7	Substituted dihalo pyridine				
		a	DCTFP	2,3-Dichloro-5- (Trichloromethyl) Pyridine			
		8	Subsituted dimethyl dioxane methanol				
		a	DHD	2, 2-Dimethyl-5- Hydroxymethyl-1, 3-Dioxane			
		9	Substituted Butanone				
		a	DMB	4,4-Dimethoxy-2-Butanone			
		10	Substituted Butanoic acid				
		a	EMBA	2-Ethyl-2-Methyl Butanoic acid			
		11	Substituted Hydrazine				
		a	MMH	Mono Methyl Hydrazine			
		b	UDMH	1,1,-Dimethyl Hydrazine			

		C	SDMH	1,2-Dimethyl Hydrazine				
		12	Substituted Phenothiazine					
		a	10-H Phenotiazine	10-H Phenotiazine				
		13	Substituted diphenyl ether					
		a	Metaphenox ybenzaldehyde	3-Phenoxy Benzaldehyde				
		Pyrazoles						00
		1	n-alkyl 3,4,5 sustitutedpyrazoles					
		a	PFD	N-{3-Isobutyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl) ethyl] phenyl}-1,3,5-TrimethylPyrazole -4-Carboxylic Amide				
		b	TBFN	4-Chloro-N-[[4-(1,1-Dimethylethyl) Phenyl] Methyl]-3-Ethyl-1-Methyl-1H-Pyrazole-5-Carboxamide				
		c	TLF	Tolfenpyrad				
		d	IBA	3-Isobutylanoline				
		e	OCTOPUSS Y	3-[[[5-(Difluoromethoxy)-1-methyl-3-(Trifluoromethyl)-1H-pyrazol-4-yl] methyl] sulfonyl]-4,5-Dihydro-5,5-Dimethyl isoxazole				
		f	MY-71	3-[1-(3,5-Dichlorophenyl)-1-Methylethyl]-3,4-Dihydro-6-Methyl-5-Phenyl-2H-1,3-oxazin-4-one				

		g	MTP	1-Methyl-3-(Trifluoro methyl)1H-Pyrazol-5-ol				
		h	DCPA	1,3-Dimethyl-5-Chloro-4-Pyrazolyl Carboxylic Acid Chloride				
		i	CFPA	3,4-Dichloro-5-Fluoro Biphenyl-2-Amine				
		j	ACH	3-(Difluoro Methyl)-1-Methyl-1H-Pyrazole-4-Carboxylic Acid				
		k	BDB	4-Bromo- 1,2-Dichloro Benzene				
		l	PRZ	Difluoro Methyl-N-Methyl Pyrazolic acid				
		Fluorospeciality products				00	2000	2000
		1	Fluoro substituted alkyl amine					
		a	DFEA	2,2-Difluoro Ethylamine				
		Pharma intermediates				00	1000	1000
		1	Substituted triazole carboxylate					
		a	EMTC	Ethyl-4-Methyl-1,3-Thiazole-5-Carboxylate				
		Specialty Chemicals				00	1000	1000
		1	Substituted cyclohexane carboxylate					
		a	ETMD	Methyl cis-1-[2-(2,5-Dimethyl phenyl)-Acetyl amino]-4-Methoxy-Cyclohexane Carboxylate				
		2	HeptaFluoro Alkane					

		a	HFMOP	1,1,1,3,3,3-Hexafluoro Isopropyl Methyl Ether				
		3	Substituted 1,3-dioxalane					
		a	MDO	2,2-Dimethyl-4-Methylene-1,3-Dioxalane				
		4	Substituted Isobutyrate					
		a	CMIBA	Chloromethyl 2-Methyl Propanoate				
		5	Substituedplenyl ether					
		a	CMTB	2-Chloro-4-(Methyl sulfonyl)-3-[(2,2,2-trifluoro ethoxy) methyl] Benzoic Acid				
		Performance Chemicals				00	13000	13000
		1	Substituted phenyl morpholoine Ketone					
		a	PCBM	1-(4-Chlorophenyl)-2-methyl-2-(morpholin-4-yl)propan-1-one				
		2	Catecol mixed salt					
		a	Negolyte	Titanium BiscatecholateMonopyrogallate Sodium Potassium Salt				
		New R&D product for Pilot scale				00	240	240
			Total			8593.2	35646.8	44240

List of by products

Sr.	List of By-products	Quantity (MTPA)
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No.		Exiting	Proposed change	Total
1	27% NaSH	49.25	950.75	1000
2	30 % HCl	9090.1	2909.9	12000
3	Ammonia Solution 15%	613.05	386.95	1000
4	SMM	45.82	-45.82	00
5	H2SO4	85.0	215	300
6	Distill Solvent	90.0	6810	6900
7	Sodium Propionate	2402.2	-2.2	2400
8	NaBr/MgBr	999.65	59000.35	60000
9	Acetic Acid	300.0	900	1200
10	Spent Catalyst	100.20	-100.2	00
11	Orthocresol	0	300	300
12	Propionic Acid	0	900	900
13	HBr	0	1000	1000
14	Sodium hypochloride solution	0	900	900
15	AlCl3	1872.8	427.2	2300
16	Ammonium Chloride	0	500	500
Total		15648.07	75051.93	90700

EAC noted that project is located in SEZ industrial area. The EAC exempted Public hearing under para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.

After detailed deliberations, the Committee prescribed the following Specific TOR in addition to Generic TOR (refer Ministry's website) for preparation of EIA-EMP report:

A. Specific TOR:

	<ol style="list-style-type: none"> i. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area. ii. Green belt plan with 10m width around the periphery of the unit with perennial trees to be submitted iii. Certified compliance report of the conditions in the existing EC, from the Regional Office of Ministry shall be submitted. iv. Indoor air quality monitoring report to be submitted. <p>It was recommended that 'TORs' without Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.</p>
21.10.4	<p>Proposed production of Active Pharmaceutical Ingredients in the existing plant at plot no.7B & 7C, SIPCOT Industrial Complex, Ranipet, Vellore district, Tamil Nadu by M/s Malladi Drugs and Pharmaceuticals Limited. [IA/TN/IND2/62496/2017, IA-J-11011/44/2017-IA-II(I)]</p> <ol style="list-style-type: none"> i. The proposal is for production of Active Pharmaceutical Ingredients in the existing Plant at plot no.7B & 7C, SIPCOT Industrial Complex, Ranipet, Vellore district, Tamil Nadu by M/s. Malladi Drugs and Pharmaceuticals Limited. ii. All Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs etc.) manufacturing units located inside the notified industrial area are listed at 5(f) schedule of environmental impact assessment (EIA) notification under category 'B' and are appraised at State level by expert appraisal committee (SEAC) but due to unit is located in Critically polluted areas as notified by the Central Pollution Control Board (CPCB), hence appraised at Central level by expert appraisal committee (EAC). iii. Existing land area is 29865 m². No Additional land will be used for proposed expansion. iv. Industry has already developed Greenbelt in an area of 33% i.e. 1.2147 Ha out of 2.98 ha of area of the project. v. The estimated project cost is Rs. 23.7 crores. vi. Total of 110 persons are employed after expansion. vii. It is reported that no national parks, wildlife sanctuaries, Biosphere reserves, tiger/elephant reserves, wildlife corridors etc. lies within 10 km distance. Palar River is flowing at a distance of 3.2 km in Southern direction. viii. Total water requirement of 155 KLD will be met from SIPCOT Water supply, Ranipet. ix. The unit will be based on zero liquid discharge system x. Power requirement after expansion will be 1450 KVA with existing 1100KVA and will be met from Tamil Nadu state power distribution corporation limited (TANGEDCO), existing unit has Two DG sets of 500 & 750 KVA capacity. Stack (height 7.5 m) provided as per CPCB norms. xi. Boiler is installed with Multi cyclone separator / bag filter with a stack of height of 36m

controlling the particulate emissions (with in statutory limit of 115 mg/Nm³).
 xii. The hazardous waste generated during manufacturing various products are given below

S.No	Products	HTDS	Inorganic	Organic	By Product
1	Pseudo Ephedrine Hcl	10.62	1.69	0.00	2.04
2	Cyclene	35.95	8.02	0.71	0.00
3	Phenyl Ephedrine	5.99	1.05	0.03	0.87
4	l - Oxa	1.48	0.18	0.10	0.00
5	dl - oxa	2.86	0.41	0.00	0.00
6	Methyl phenindate	0.02	0.00	0.01	0.00
7	dl - Ritalinic acid	5.25	1.66	0.60	0.00
8	d- Ritalinic acid	0.92	0.00	0.00	0.00
9	Bosentan	0.00	0.00	1.03	0.00
10	Tripolidine	0.29	0.35	0.02	0.00
11	Etaephedrine	0.01	0.00	0.00	0.00
12	Alprazolam	0.29	0.04	0.00	0.00
13	Amlodipine Besilate	0.91	0.93	2.26	0.00
14	Lorazepam	0.00	0.00	0.08	0.00
15	SelegelineHCl	0.00	0.05	0.05	0.00
	Total	64.59	14.39	4.89	2.91

xiii. Following are the list of existing and proposed products:

Existing product list and Proposed Product list

Sr. No	Product	Existing Qty	Proposed Qty
		Mt / M	Mt / M
1	Pseudo Ephedrine Hcl	12	40
2	Alprazolam	0.12	0.1
3	Propranolol Hcl	24	0
4	Atenolol	48	0
5	Albendazole	0.18	0
6	Theophylline	3	0
7	Dapsone	1.8	0

8	Phenylephrine	0	10
9	Triprolidine	0	0.5
10	Cyclene	0	5
11	Bosentan	0	0.5
12	Methylphenidate	0	0.08
13	Eta ephedrine	0	0.05
14	DL - Ritalinic acid	0	3
15	D-Ritalinic Acid	0	0.5
16	L - Oxa	0	10
17	DI - Oxa	0	10
18	Lorazepam	0	0.05
19	Amlodipine	0	1
20	Tranaxemic acid	0	5
21	Seligiline	0	0.05
	Total	89.1	85.83

The EAC noted the project location is falling under identified Critically Polluted Area. The PP informed that the moratorium is in place in the CPA. The EAC asked the PP to submit the letter from SPCB concerned. A copy of the valid CTO issued by concerned SPCB to be submitted. The EAC decided to defer the proposal till the requisite information is submitted to the Ministry.

21.10.5

PROPOSED EXPANSION OF SPECIALTY CHEMICALS IN EXISTING UNIT of M/S. REGAL REMEDIES LTD. (UNIT-II) [FORMALLY KNOWN AS SAYONA INTERMEDIATES PVT. LTD.] PLOT NO. 7406, GIDC ESTATE, ANKLESHWAR, DISTRICT - BHARUCH-393002, GUJARAT [IA/GJ/IND2/62504/2017, IA-J-11011/101/2017-IA-II(I)]

The Project Proponent and accredited Consultant M/s. Aqua-Air Environmental Engineers Pvt. Ltd., gave a detailed presentation on the salient features of the project & informed that:

- i. The proposal is for Proposed expansion of Specialty Chemicals manufacturing plant in existing unit at plot No. 7406, GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s. Regal Remedies Ltd. (Unit-II).
- ii. All Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs etc.) manufacturing units located inside the notified industrial area are listed at 5(f) schedule of environmental impact assessment (EIA) notification under category 'B' and are appraised at State level by expert appraisal committee (SEAC) but due to unit is located

		phenyl)4--(4-nitrophenyl)piperazine) etc...		50
	5	4-FluoroBenzylamine	-	
	6	3 Amino-4 Chloro Benzotrifluoride	-	
	7	4-Fluoroanisole	-	
	8	2-Fluoroanisole	-	
	9	4-Fluorophenylacetic acid	-	
	10	2,4-Difluorobenzylamine	-	
	11	4-Fluoro methylbenzoate	-	
	12	4-Bromo fluorobenzene	-	
	13	2-Bromo fluorobenzene	-	
	14	BF3-Ether	-	
	15	Phenyl ethyl bromide	-	
	16	3,5-Difluoro benzonitrile	-	
	17	HF-Pyridine	-	
	18	4'4-Difluorobenzophenone	-	
	19	6-Fluoro-3,4-dihydro-2-oxiranyl-2H-1-benzopyran (NB-III)	-	
	Total			50

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

A. Additional TOR:

- Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.
- Green belt plan with 10m width around the periphery of the unit with perennial trees to be submitted.

It was recommended that 'TORs' without Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.

21.10.6	Proposed expansion of Bakelite powder manufacturing unit of m/s. Hindustan Bakelite Company at plot no. J-3436, GIDC Estate, Ankleshwar, District: Bharuch-393002, Gujarat [IA/GJ/IND2/62624/2017, IA-J-11011/109/2017-IA-II(I)]
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The Project Proponent and accredited Consultant M/s. Aqua-Air Environmental Engineers Pvt. Ltd., gave a detailed presentation on the salient features of the project & informed that:

- i. The proposal is for Proposed expansion of Bakelite powder manufacturing plant in existing unit at plot No. J-3436, GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s. Hindustan Bakelite Company.
- ii. All Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs etc.) manufacturing units located inside the notified industrial area are listed at 5(f) schedule of environmental impact assessment (EIA) notification under category 'B' and are appraised at State level by expert appraisal committee (SEAC) but due to unit is located in Critically polluted areas as notified by the Central Pollution Control Board (CPCB), hence appraised at Central level by expert appraisal committee (EAC).
- iii. Existing land area is 706 m²; No additional land will be used for proposed expansion. out of this area about 100 sq. meter (14 %) area will be covered as greenbelt and other forms of greenery.
- iv. The estimated project cost is Rs. 100 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 25 Lakhs and the recurring cost (operation & maintenance) will be about Rs. 5 Lakhs per annum.
- v. It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Narmada River is flowing at a distance a distance of 7 km in N direction.
- vi. Ambient air quality monitoring will be carried out at 8 locations during March-2017 to May-2017.
- vii. Total water requirement will be 4.2 m³/day of which fresh water requirement of 4.2 m³/day and will be met from GIDC Water Supply.
- viii. No industrial effluent is generated.
- ix. Power requirement will be 250 KVA and will be met from DGVCL.
- x. Existing unit has Steam boiler (400 kg/hr).
- xi. Discarded Containers/ Bags / Liners will be Reuse / Sale to authorize scrap vendor.
- xii. Details of Solid waste / Hazardous waste generation and its management.
- xiii. Following are the list of existing & proposed products:

Sr. No.	NAME OF PRODUCT	EXISTING (MT/Month)	ADDITIONAL (MT/Month)	TOTAL AFTER EXPANSION (MT/Month)
1	P.F. Moulding Powder (Bakelite Powder)	40	300	340
Total		40	300	340

	<p>After detailed deliberations the EAC recommended the proposal for grant of following additional TOR along with standard TOR as available on the Ministry website:</p> <p>i. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.</p>														
21.10.7	<p>Expansion of Sugar Unit capacity from 6500 TCD to 14000 TCD and Cogeneration Power Unit from 18.14 MW to 62.14 MW in the same factory premises with no change in distillery unit at Krishnanagar, Hosur post, Vijayapur Taluk & district, Karnataka State By M/s Nandi Sahakari Sakkare Karkhane Niyamit, (NSSKH) [IA/KA/IND2/62675/2017, IA-J-11011/110/2017-IA-II(I)]</p> <p>The project proponent and their consultant informed following:-</p> <p>i. The project involves expansion of Sugar Unit capacity from 6500 TCD to 14000 TCD and Cogeneration Power Unit from 18.14 MW to 62.14 MW in the same factory premises with no change in distillery unit at Krishnanagar, Hosur post, Vijayapur Taluk & district, Karnataka State By M/s Nandi Sahakari Sakkare Karkhane Niyamit, (NSSKH).</p> <p>ii. State EC obtained for 3500 TCD, Dated 29/06/2003. State EC obtained for 18.14 MW (105 TPH Boiler) Dated 29/04/2003.</p> <p>iii. MoEF&CC had issued EC vide letter no. F. No. J-11011/644/2007-IA.II (I) dated 02/09/2008 for expansion of 3500 TCD to 6500 TCD and Installation of new 50 KLPD Distillery Unit.</p> <p>iv. Proposed expansion is in the existing sugar industrial complex where plant is already in operation. No new land area required.</p> <p>v. The total land area is 97.12 Ha (240 Acres). The utilization of land is given below:</p> <table border="1"> <tr> <td>Sugar Plant</td><td>16.8 Acres</td></tr> <tr> <td>Co Gen Plant</td><td>3.59 Acres</td></tr> <tr> <td>Distillery Plant</td><td>3.21 Acres</td></tr> <tr> <td>General Building</td><td>11.4 Acres</td></tr> <tr> <td>Green Belt Area</td><td>84 Acres</td></tr> <tr> <td>Vacant area</td><td>116 Acres</td></tr> <tr> <td>Total Land</td><td>240 Acres</td></tr> </table> <p>vi. Bagasse (Season and off Season) available from captive source (4200 T/day) will be used as fuel during the sugar season and off season as prime fuel.</p> <p>vii. Permission has taken from Executive Engineer, Karnataka Nigam Ltd – Biligi is already</p>	Sugar Plant	16.8 Acres	Co Gen Plant	3.59 Acres	Distillery Plant	3.21 Acres	General Building	11.4 Acres	Green Belt Area	84 Acres	Vacant area	116 Acres	Total Land	240 Acres
Sugar Plant	16.8 Acres														
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Green Belt Area	84 Acres														
Vacant area	116 Acres														
Total Land	240 Acres														

	<p>obtained for lifting water from Krishna River. After the expansion, the fresh water requirement will be 972 KLD for Sugar unit and 545 KLD for Co-Gen Power Plant. Permission available for drawing water is adequate even after the proposed expansion and will be utilized for the factory.</p> <p>viii. Total manpower requirement during construction will be 100. Most of the labour force is available locally and they reside in villages.</p> <p>ix. The electric power produced is used to meet the captive power requirement of the sugar industry and co-gen plant. Surplus power from the industry is exported to power grid through distribution grid.</p> <p>x. The boiler is equipped with high efficiency three fields Electro Static Precipitator, which removes the suspended particles and ash particles from the flue gas.</p> <p>During presentation committee noted that pp did present the layout w.r.t to existing green belt it seems that they did not developed the green belt properly. The EAC under rated the performance of the consultant.</p> <p>After deliberation, the Committee sought following additional information:</p> <ol style="list-style-type: none"> 1. Revised layout plan with 3 layer of trees to be submitted. 2. Certified compliance report of existing EC to be submitted. <p>The proposal was deferred till the desired information is submitted. The above information shall be provided through online with the uploading of minutes on the website.</p>
21.10.8	<p>Proposed Expansion Of Speciality Chemicals, Agrochemicals, Agrochemical Intermediates & Formulation In Existing Unit at Plot No. 3208, GIDC- Ankleshwar, Dist: Bharuch, Gujarat by M/s Hemani Intermediates Pvt. Ltd (Unit-II)- [IA/GJ/IND2/62687/2017, IA-J-11011/111/2017-IA-II(I)]</p> <p>The Project Proponent and accredited Consultant M/s. Aqua-Air Environmental Engineers Pvt. Ltd., gave a detailed presentation on the salient features of the project & informed that:</p> <ol style="list-style-type: none"> i. The proposal is for Proposed expansion of specialty chemicals, Agrochemicals, Formulation & Agrochemical Intermediates Plant in existing unit at plot No. 3208, GIDC Ankleshwar, Dist. Bharuch, Gujarat by Hemani Intermediates Pvt. Ltd. (Unit-II). ii. All Pesticides industry and pesticide specific intermediates (excluding formulations) are listed at S.N. 5 (b) and Synthetic organic chemical manufacturing unit are listed at S.N. 5 (f) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC). iii. Ministry has issued EC earlier vide letter no. J-11011/376/2007-IAII(I); dated 1st November, 2007 for Agrochemical manufacturing unit to M/s. Hemani Organics and Chemicals Ltd.

- iv. Existing land area is 33570 m²; No additional land will be used for proposed expansion.
- v. Industry will be developed Greenbelt in an area of 33% i.e. 6700 m² out of 33570 m² of area of the project.
- vi. The estimated project cost is Rs. 10 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 2 Crores and the recurring cost (operation & maintenance) will be about Rs. 25 Lakhs per annum.
- vii. It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Narmada River is flowing at a distance a distance of 7 km in N direction.
- viii. Total water requirement will be 460 m³/day of which fresh water requirement of 460 m³/day and will be met from GIDC Water Supply.
- ix. Treated industrial effluent 180 KL/Day will be sent to deep sea through GIDC pipeline. 25 KL/Day high COD effluent will be sent to incinerator facility.
- x. Power requirement will be 2500 KVA and will be met from DGVCL.
- xi. Existing unit has Steam boiler (7 TPH) & Incinerator – I & II.
- xii. Details of Process emissions generation and its management
 - a. Unit has installed Water & Alkali Scrubber to control process gas emission.
- xiii. Details of Solid waste / Hazardous waste generation and its management.

Sr. No.	Description	Source of wastes	Quantity			Waste Cat.	Nature of waste	Mode of Disposal
			Existing	Proposed	Total			
1.	Discarded Containers	Raw material storage area	65 Nos./M	100 Nos./M	165 Nos./M	33.1	HDPE	Collection, Storage, Transportation, Decontamination & sold to authorized vendors

	2.	Discarded Bags		0.45 MT/M	0.65 MT/M	1 MT/M	33.1		Collection, Storage, Transportation, Decontamination & sold to authorized vendors/re use within premises
	3.	Used Oil	Machine lubrication	15 lit/M	15 lit/M	30 lit/M	5.1	Oil & impurities	Collection, Storage, Transportation & sent to registered recycler
	4.	Residue & Waste	In Process	7.5 MT/M	112.5 MT/M	120 MT/M	28.1	Organic	Collection, Storage, Transportation & sent for co-processing in cement industries or incineration
	5.	ETP Sludge & MEE Salt	ETP	40 MT/M	210 MT/M	250 MT/M	35.3	Inorganic	Collection, Storage, Transportation & sent to common TSDF
	6.	Incinerator ash	Incinerator	2 MT/M	8 MT/M	10 MT/M	37.2	Inorganic	Collection, Storage, Transportation

									tion & sent to common TSDF
	7.	(By-Product) H2SO4	Process	-	202 MT/M	202 MT/M	--	Inorganic	Collection, Storage, Transportation & Sold to actual end users / Reused
	8.	(By-Product) Aqueous Sol. Aluminum Chloride	Process	175 MT/M	2770 MT/M	2945 MT/M	--	Inorganic	Collection, Storage, Transportation & Sold out to actual end user
	9.	(By-Product) Potassium Chloride (20% Soln)	Process	70 MT/M	1180 MT/M	1250 MT/M	--	Inorganic	Collection, Storage, Transportation & Sold out to actual end user
	10	Poly Alumium Chloride	Process	--	3460 MT/M	3460 MT/M	--	Inorganic	Collection, Storage, Transportation & Sold out to actual end user
	11	Sodium Bisulfite	Process	--	15 MT/M	15 MT/M	--	Inorganic	Collection,

								Storage, Transport ation & Sold out to actual end user
12	Copper Hydroxide	Process	--	10 MT/M	10 MT/M	--	Inorgan ic	Collectio n, Storage, Transport ation & Sold out to actual end user

xvii. Following are the list of existing & proposed products:

Sr. No.	Products	Production Quantity (MT/Month)		
		Existing	Proposed	Total
1.	Meta Phenoxy Benzaldehyde	30	470	500
2.	Meta Phenoxy Benzaldehyde Alcohol	--	100	100
3.	Bromo Nitro Benzene	--	25	25
4.	Meta Bromo Anisole	--	25	25
5.	Lambda Cyhalothrin	--	30	30
6.	1 R Trans CMA Synthetic	--	50	50
7.	1 R Trans CMA Synthetic – Catalyst		10	10
Total		30	710	740
Formulation				
Insecticides – Liquid Based Product(Formulation)				
a	Chloro Pyrifos-50% EC	--	300	300
b	Cypermethrin 25% EC			
c	Cypermethrin 10% EC			

		d. Imidacloprid 17.8% SL			
		e. Monochrotophos 36% SL			
		f. Buprefecin 25% SC			
		g. Fiprofecin 25% SC			
		h. Fipronil 5% SC			
		i. Glyphosate 41% SL			
		j. Alphamethrin 10% EC			
		k. Permethrin 25% EC			
		l. Lambda cyahlothrin 5% EC			
	Herbicides – Liquid Based Product(Formulation)				
		Glyphosate SL	--	200	200
		Pretilachlor 50% EC			
		Imazethapya 10% SL			
	Fungicides – Liquid Based Product(Formulation)				
		Hexaconazole 5% EC	--	200	200
		Hexaconazole 5% SC			
		Validamycin 3% L			
	Inecticies – Solid Based Product(Formulation)				
		Cartap HCl 4% granulesGR	--	100	100
		Fipronil granules GR			
		Imidacloprid granules WG			
		Thiomethoxam 25% WG			
		Cartap HCl 50 SP			
		Acephate 75% SP			

	Acetamaprid SP			
	Imidacloprid 70 WG			
Herbicides – Solid Based Product(Formulation)				
	Metribuzin WP	--	100	100
	Diruon WP			
Fungicides – Solid Based Product(Formulation)				
	Carbendazim 12% + Mancozeb 63% WP	--	100	100
	Tricylazole 75% WP			
	Carbendazim 50% WP			
	Miclobutanil WP			
	Copper Oxy Chloride WP			
	Mancozeb WP			
Total		30	1710	1740
By-Products				
1.	Potassium Chloride (25% Sol ⁿ)/Powder	70	1180	1250
2.	Recovered Liq. Bromine	--	250	250
3.	Aqueous Aluminium Chloride	175	2770	2945
4.	H ₂ SO ₄ (67% Sol ⁿ)	--	202	202
5.	Poly Alumium Chloride	--	3460	3460
6.	Sodium Bisulfite	--	15	15
E = Existing as per already obtained CCA No. AWH 65178 P = Proposed for current expansion project. T = Total after expansion project.				
<p>After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:</p> <p>A. Additional TOR:</p>				

	<ul style="list-style-type: none"> i. Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made. ii. Green belt plan with 10m width around the periphery of the unit with perennial trees to be submitted. iii. Certified compliance report of existing EC to be submitted. <p>It was recommended that 'TORs' with Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.</p>
21.10.9	<p>Proposed Bulk Drugs And Its Intermediates In Existing Unit of M/s. Mahavir Laboratories Plot No. 3702, Opp. ETL, GIDC Industrial Estate, Ankleshwar-393002, Dist: Bharuch, Gujarat [IA/GJ/IND2/62701/2017, IA-J-11011/112/2017-IA-II(I)]</p> <p>The Project Proponent and accredited Consultant M/s. Aqua-Air Environmental Engineers Pvt. Ltd., gave a detailed presentation on the salient features of the project & informed that:</p> <ul style="list-style-type: none"> i. The proposal is for Proposed expansion of bulk drugs & its Intermediates within existing unit at plot No. 3702, GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s. Mahavir Laboratories. ii. All Synthetic organic chemicals industry (dyes & dye intermediates; bulk are located inside the notified industrial area are listed at S.N. 5 (f) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'B' but due to site is located in critically polluted area hence appraised at Central Level by Expert Appraisal Committee (EAC). iii. Existing land area is 1000 m²; No additional land will be used for proposed expansion. iv. Industry will be developed Greenbelt in an area of 33% i.e. 250 m² out of 1000 m² of area of the project. v. The estimated project cost is Rs. 1.5 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 50 Lakhs and the recurring cost (operation & maintenance) will be about Rs. 10 Lakhs per annum. vi. It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Narmada River is flowing at a distance a distance of 7 km in N direction. vii. Total water requirement will be 20.9 m³/day of which fresh water requirement of 20.9 m³/day and will be met from GIDC Water Supply. viii. Treated effluent of 1.33 KL/Day will be sent to CETP, Ankleshwar. ix. Power requirement will be 56 KVA (Existing: 37.6 KVA & Proposed: 18.4 KVA) and will be met from DGVCL. x. Existing unit has boiler(800 kg/hr) & proposed boiler (1TPH). Caustic Scrubber will be installed to control APCM.

	xi. Details of Solid waste / Hazardous waste generation and its management.					
	Type of waste	Category	Existing	Additional MT/Month	Total MT/Month	Disposal Method
	Discarded Drums/Bags/ Liners	33.1	0.5 MT/Month	2 MT/Month	2.5 MT/Month	Collection, Storage, Transportation, Decontamination & Sale to GPCB approved vendors.
	Used oil	5.1	0.001 KL/Month	0.001 KL/Month	0.002 KL/Month	Collection, Storage, Transportation & Sale to GPCB registered re- processor.
	ETP Sludge	35.1	--	4 MT/Month	4 MT/Month	Collection, Storage, Transportation and Disposal at common TSDF site.
	Distillation Residue	28.1	--	5 MT/Month	5 MT/Month	Collection, storage, Transportation and sent for co- processing in cement industries or Disposal at common incineration site.
	Spent Carbon	28.3	--	0.250 MT/Month	0.250 MT/Month	
	Spent Catalyst	28.2	--	0.050 MT/Month	0.050 MT/Month	Collection, Storage, Transportation and return to re- generator.
	ii. Following are the list of existing & proposed products:					
	SR. NO.	PRODUCTS		Production Capacity (MT/MONTH)		
				EXISTING QUANTIT	ADDITION AL	TOTAL QUANT

		Y	QUANTITY	ITY
	Existing*			
1	Printing Oil / Rubber Process Oil	100	--	100
2	Turpentine Oil			
3	Thinners			
	Total	100	--	100
	Proposed			
1	Cetrazine diHCl and its intermediates	--	3	3
2	Dex chlorpheniramine Meleate and its intermediates			
3	Ondansetrone HCl and its intermediates			
4	Duloxetine HCl and its intermediates			
5	Sorafenib Tosylate and its intermediates			
6	Qutiapine Fumerate and its intermediates			
7	Venlafexine HCl and its intermediates			
8	Miconazole Nitrate and its intermediates			
9	1-Acetyl piperazine and its intermediates	--	2	2
10	Diphenyl Acetonitrile and its intermediates			
11	a-phenyl 2-pyridyl acetamide and its intermediates			
12	Di Benzoil L+ Tartaric Acid and its intermediates			
	TOTAL	--	5	5
	TOTAL (EXISTING+PROPOSED)	100	5	105

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

A. Additional TOR:

- ii. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified

	<p>industrial area.</p> <p>It was recommended that 'TORs' without Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.</p>
21.10.10	<p>API and DC grade manufacturing facility at Plot No. D-30 MIDC Kurkumbh, Pune (Maharashtra) by M/s Sohan Healthcare Pvt. Ltd (SHPL)[IA/MH/IND2/62682/2017, IA-J-11011/113/2017-IA-II(I)]</p> <p>The Project Proponent and the accredited Consultant M/s S D engineering services pvt. ltd. gave a detailed presentation on the silent features of the project and informed that:</p> <ol style="list-style-type: none"> The proposal is for expansion at Plot No. D.30, MIDC, Kurkumbh, Dist.-Pune by M/s Sohan Healthcare Pvt. Ltd. All Synthetic organic chemicals industry (dyes & dye intermediates; bulk) are located inside the notified industrial area are listed at S.N. 5 (f) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'B' but due to absence of SEAC in Maharashtra are appraised at Central Level by Expert Appraisal Committee (EAC). Ministry has issued EC earlier vide letter No. EC No: J-11011/87/2006/IA II Dated August 31st, 2006 for existing unit to M/s Sohan Healthcare Pvt. Ltd. Existing land area is 20,000 sqm, Noadditional land will be used for proposed expansion. Industry will be developed Greenbelt on an area of 33% of total plot area i.e., 6700sqm out of 20,000 sqm of area of the project. The estimated project cost is Rs. 35 crore including excluding existing investment of Rs. 10.96 crores. Total capital cost earmarked towards environmental pollution control measures is Rs.5 crore and the Recurring cost (operation and maintenance) will be about Rs. 60 lacks per annum. Total Employment will be 80 persons as direct & 100persons indirect after expansion. Industry proposes to allocate Rs. 0.875 crore (a) of 2.5 %of total project cost, towards Corporate Social Responsibility. It is reported that no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves or Wildlife Corridors etc. lies within 10 km distance. Total water requirement is 440 m³/day of which fresh water requirement of 440 m³/day and will be met from MIDC. Treated effluent of 188 cum/day (180 cum/day Industrial and 8 cum/day domestic) will be treated through effluent treatment plant. Low TDS effluent will be treated in ETP (involving Primary Treatment, 2 stage Secondary Treatment and Tertiary Treatment). High TDS effluent will be treated in a system comprising of Solvent stripper, MEE and ATFD. Power requirement after expansion will be 2500 KVA including existing 500KVA and will be met from Maharashtra State Power Distribution Corporation Limited (MSPDCL).

- xii. Existing unit has 2 nos of DG sets each having capacity of 320 KVA and 750 KVA respectively, additionally 2 Nos. of DG sets of capacity 750 KVA each are proposed for expansion and will be used as standby during power failure. Stack (height 6.5m) will be provided as per CPCB norms to the proposed DG sets in addition to the existing DG sets of 320 KVA and 750 KVA capacity, which will be used as standby during power failure.
- xiii. Existing unit has 1.5 TPH Briquette or coal fired boiler. A new boiler of 6.0 TPH will be installed for expansion project. Multi cyclone separator/ bag filter with a stack of height of 30m will be installed for controlling the Particulate emissions (within statutory limit of 115 mg/Nm) for Proposed 6 TPH Briquette or coal fired boiler.
- xiv. Two stage scrubbers will be used to control the process emissions.
- xv. Details of Solid waste/Hazardous waste generation and its management are as follows:

Sr. No	Type of Waste	Quantity in TPD	Disposal
1.	Boiler Ash	2.00	Send to brick mfg. industry/cement industry
2.	Bio Sludge from ETP	1.00	Manure for Green Belt Development

Sr. No	Process	Category	No	Proposed kg/Day	Remark/ Disposal practice
1.	Purification, water treatment, of exhaust air waste, waste water from the processes- sludge from waste water treatment	ETP Sludge	35.3	3600	CHWTSDF
2.	Production	Residue And Waste	28.1	100	CHWTSDF
3.	From Process	Spent Carbon	28.3	385	CHWTSDF/Cement Industry
4.	General	Off Specification Product	28.4	50	Regular Recycler/ Cement Industry

5.	From Process and general-utility	Spent oil/waste/process residue containing oil	5.1, 5.2	70	Sale to authorized recycler/ re-processor/Cement industry/ CHWTSDF
6.	Disposal of barrels containers used for handling hazardous waste and chemicals	Discarded containers barrels used form HW and chemicals	33.1	500	Sale to authorized recycler
7.	Process	Spent Solvent	20.2	2948	Sale to authorized recycler, re-processor, cement industry.
8.	Process Solvent Recovery	Distillation Residue	20.3	7639	CHWTSDF

xv. Following are the list of existing and proposed products:

a. Existing Product List:

Sr. No	Products	Quantity MT/Month
1	Metformine Hydrochloride [API]	840
2	Metformine Hydrochloride –DC grade	840

b. Proposed Products and their Capacities for EC Expansion:- DC Grade

Sr. No	Products	Quantity (MT/M)
1.	Metformine Hydrochloride DC grade	1000

2.	Methocarbamol -DC grade	500
3.	Ibuprofen DC Grade	500
4.	Ciprofloxacin DC grade	200
5.	Neproxican DC Grade	400

c. Proposed Products and their Capacities for EC Expansion:- API

Sr. No	Products	Quantity MT/month
1.	Metformine Hydrochloride	1000
2.	Ibuprofen	500
3.	Allopurinol	5.00
4.	Alandronate sodium	1.00
5.	Pioglutazone Hydrochloride	1.00
6.	Glimipridde	1.5
7.	Tramadol Hydrochloride	5.00
8.	5-Amino salicylic acid [Mesalamine]	3.00
9.	4-Amino salicylic acid [PAS Sodium]	3.00
10.	Miconazole Nitrate	2.00
11.	Divalaproex sodium	5.00
12.	Sertaconazole	2.00
13.	Chlorzoxazone	2.00
14.	L-Thyroxine sodium	0.1

15.	Sitagliptin	2.00
16.	Sexagliptin	2.00
17.	Warfarin sodium Clathrate and amorphous	0.1
18.	Glyclazide	1.00
19.	Etam Salyate	3.00
20.	Trichloro acetophenone	3.00
21.	Fluconazole	1.00
22.	Gabapentin	5.00
23.	Lidocaine Base	5.00
24.	Lidocaine Hydrochloride	5.00
25.	Bisoprolol hemifumarate	3.00
26.	Methyl cyanocobalmine	0.1
27.	Sertranil Hydrochloride	4.00
28.	Flurbiprofen	2.00
29.	Dilitiazem	4.00

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

A. Specific TOR:

- i. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.
- ii. Certified compliance report of existing EC to be submitted.

It was recommended that 'TORs' along without Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is

	exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.																																		
21.10.11	<p>Synthetic organic chemicals industry (dyes & dye intermediates; bulk by M/s. FR ChemPvt. Ltd. Survey No. 47/1, 47/2, 47/3, 47/4, 47/5, Village: Lakshmipura, Nandasan, Taluka: Kadi, District: Mehsana- 382715 Gujarat [IA/GJ/IND2/62465/2017, IA-J-11011/43/2017-IA-II(I)]</p> <p>The project proponent informed following:-</p> <p>(i) The project involves synthetic organic chemicals industry (dyes & dye intermediates; bulk) Survey No. 47/1, 47/2, 47/3, 47/4, 47/5, Village: Lakshmipura, Nandasan, Taluka: Kadi, District: Mehsana, Gujarat by M/s FR Chem Pvt. Ltd.</p> <p>(ii) All Synthetic organic chemicals industry (dyes & dye intermediates; bulk) are located outside the notified industrial area are listed at S.N. 5 (f) of Schedule of Environmental Impact Assessment (EIA) Notification under category ‘A’ and appraised at Central Level by Expert Appraisal Committee (EAC).</p> <p>(iii) Facilities proposed for project include manufacturing units, storage of raw material & finish good, QC/ R&D unit and effluent treatment plant. Mechanical utilities for the project comprises of reactor vessel, compressed air, steam, chilled water and stand-by diesel generator set, etc</p> <p>(iv) Production capacity:</p> <table><tr><th rowspan="2">S. No.</th><th rowspan="2">Name of Product</th><th>Production Capacity</th></tr><tr><th>MT/Month</th></tr><tr><td>1</td><td>Sodium Carboxymethyl- cellulose [Na CMC]</td><td>75</td></tr><tr><td>2</td><td>Calcium Carboxymethyl Cellulose [Ca CMC]</td><td>25</td></tr><tr><td>3</td><td>Cros Carmellose Sodium</td><td>25</td></tr><tr><td>4</td><td>Hydroxypropyl methylcellulose</td><td>50</td></tr><tr><td>5</td><td>Cellulose Acetate</td><td>75</td></tr><tr><td>6</td><td>Cellulose Xanthate</td><td>50</td></tr><tr><td>7</td><td>Cellulose Nitrate</td><td>50</td></tr><tr><td>8</td><td>Methyl Cellulose</td><td>50</td></tr><tr><td>9</td><td>Ethyl Cellulose</td><td>50</td></tr><tr><td>10</td><td>Hydroxyethyl cellulose</td><td>50</td></tr></table> <p><i>The manufacture of above stated products would fall under 5(f) of the schedule of the EIA Notification - 2006 and therefore this application has been made for obtaining Environmental Clearance.</i></p> <p>(v) Air pollution control measures:</p>	S. No.	Name of Product	Production Capacity	MT/Month	1	Sodium Carboxymethyl- cellulose [Na CMC]	75	2	Calcium Carboxymethyl Cellulose [Ca CMC]	25	3	Cros Carmellose Sodium	25	4	Hydroxypropyl methylcellulose	50	5	Cellulose Acetate	75	6	Cellulose Xanthate	50	7	Cellulose Nitrate	50	8	Methyl Cellulose	50	9	Ethyl Cellulose	50	10	Hydroxyethyl cellulose	50
S. No.	Name of Product			Production Capacity																															
		MT/Month																																	
1	Sodium Carboxymethyl- cellulose [Na CMC]	75																																	
2	Calcium Carboxymethyl Cellulose [Ca CMC]	25																																	
3	Cros Carmellose Sodium	25																																	
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5	Cellulose Acetate	75																																	
6	Cellulose Xanthate	50																																	
7	Cellulose Nitrate	50																																	
8	Methyl Cellulose	50																																	
9	Ethyl Cellulose	50																																	
10	Hydroxyethyl cellulose	50																																	

➤ **Flue Gas Stacks**

S. No.	Stack attached to	Height of Stack from Ground Level (m)	Diameter of Stack (m)	Air Pollution Control Unit
1	D. G. Set - 1 (75 kVA)	5	0.1	Not applicable*

**It would not be out of place to mention that Diesel is comparatively clean fuel.*

➤ **Scrubber** will be provided for process emission control.

- (vi) **Water requirement:** 15 KL/day (out of which only 9 KLD is Industrial consumption).
- (vii) **Waste water treatment:**
- The domestic waste water generated will be disposed off through septic tanks/soak pits.
 - The industrial process wastewater will be collected in a holding tank, neutralized and evaporated in a single/multiple evaporator system. The condensate will be recycled for making scrubbing solution. Therefore no effluent will be required to be discharged and the stated process would be a ZERO DISCHARGE process. The residue from the MEE will be sent for incineration to Common Hazardous Waste Incineration Facility (CHWIF) site.
- (viii) **Solid / hazardous waste management and disposal:**
- Used oil will be collected, stored and reused within premises or sold to registered recyclers.
 - Process Waste will be sold off to briquettes manufacturing units or will be sent to approve CHWIF site for incineration or for co-processing.
 - ETP sludge will be collected, stored and disposed at secured landfill site.
 - Distillation residue will be collected, stored and sent to approve CHWIF site for incineration or for co-processing.
 - Discarded Barrels/Containers/Bags/Liners will be collected, stored and sold to MoEF authorized recyclers.
- (ix) **Green belt:** Approximately 6331.19 m² i.e. 33% of the total plot area.
- (x) The cost of the project is Rs.15 Crores.

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

A. Specific TOR:

- i. Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made.
- ii. Green belt plan with 10m width around the periphery of the unit with perennial trees to be submitted.
- iii. Certified compliance report of existing EC to be submitted.

	<p>It was recommended that ‘TORs’ along with Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the ‘Generic Structure of EIA’ given in Appendix III and IIIA in the EIA Notification, 2006.</p>															
21.10.12	<p>Proposed LNG & LPG Import Facilities With Captive Jetty And Breakwaters at East Godavari District, Andhra Pradesh [IA/AP/IND2/62550/2017, IA-J-11011/47/2017-IA-II(I)]</p> <p>PP did not attend the meeting. The EAC decided to defer the proposal.</p>															
21.10.13	<p>Manufactue of “Agrochemical”at Plot no. 918,GIDC Jhagadia, Bharuc by M/s. Amarjyot Chemical Ltd.(Unit-3) [IA/GJ/IND2/62396/2017, IA-J-11011/39/2017-IA-II(I)]</p> <p>The project proponent informed following:-</p> <ul style="list-style-type: none">i. The project involves manufacture of “Agrochemical”at Plot no. 918, GIDC Jhagadia, Bharuch by M/s Amarjyot Chemical Ltd. (Unit-3).ii. It is reported that no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves or Wildlife Corridors etc. lies within 10 km distance.iii. The List of Products: <table border="1"><tr><td>iv.</td><td>vi.</td><td>Name of Products</td><td>vii.</td><td>Capacity (MT/Month)</td></tr><tr><td>v.</td><td></td><td></td><td></td><td></td></tr><tr><td>viii.</td><td>ix.</td><td>2,4 Di chloro phenoxy acetic acid</td><td>x.</td><td>1200</td></tr></table> <ul style="list-style-type: none">xi. The total plot area of the unit is 15,003 Sq. m. The green belt area will be 3636 sq. m.xii. The unit will use 54 KL/Day of fresh water. 49 KL/Day of water will be used for the Industrial purpose and 5 KL/Day will be used for Domestic purpose. Sewage effluent will be disposed into soak pit system. Industrial effluent will be laid down in ETP and obtain Zero Liquid Discharge through MEE and R.O. installation.xiii. Power - The unit will be required connected load of 500 KVA from DGVCL. Fuel with source of supply - Steam about 15 T/hr will be supplied from our neighbouring plot 919.xiv. Hazardous waste generation from proposed ETP will be ETP waste 540 MT/Month, Used/spent oil-100 Lit/month, Empty drum/bags, Salt from MEE-450 T/Month.xv. The expected cost of proposed expansion is Rs. 11.54 Crores.	iv.	vi.	Name of Products	vii.	Capacity (MT/Month)	v.					viii.	ix.	2,4 Di chloro phenoxy acetic acid	x.	1200
iv.	vi.	Name of Products	vii.	Capacity (MT/Month)												
v.																
viii.	ix.	2,4 Di chloro phenoxy acetic acid	x.	1200												

	<p>After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:</p> <p>A. Additional TOR:</p> <ol style="list-style-type: none"> Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made. Green belt plan with 10m width around the periphery of the unit with perennial trees to be submitted. <p>It was recommended that 'TORs' along with Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.</p>
21.10.14	<p>Proposing to manufacture Activated Pharma Ingredients at Survey no.: 340 & 345, Village-Amipura, Kensville Nalsarovar Road, District-Bavla, Ahmedabad-382220 by M/s Skantr Lifescience LLP [IA/GJ/IND2/62557/2017, IA-J-11011/46/2017-IA-II(I)]</p> <p>The project proponent and the accredited consultant M/s T R Associates gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> The project involves proposing to manufacture Activated Pharma Ingredients at Survey no.: 340 & 345, Village - Amipura, Kensville Nalsarovar Road, District - Bavla, Ahmedabad by M/s Skantr Life science LLP. All Synthetic organic chemicals industry projects (Bulk drugs and intermediates excluding drug formulations), located outside the notified industrial area/estate Products are listed at S.N5(f) of schedule of Environmental Impact Assessment (EIA) notification under category 'A' and are appraised at Central level by the Expert Appraisal Committee.(EAC). It is reported that nonational parks, wildlife sanctuaries, Biosphere reserves, Tiger/Elephant reserves, wildlife corridors etc. Lies within 10 km distance. River Rodh is flowing at a distance a distance of 6.0 km in W direction. Industry is will be developed greenbelt in an area of 33.4% i.e. 4767 m² out of 14,285 m² of area of the project. The estimated project cost is Rs.6.65 crore- Capital cost enmarked towards

- environmental pollution control measures is Rs 1.62 crore and the recurring cost(operation and maintenance) will be about Rs. 50 lacs per annum.
- (vi) Total employment will be 110 persons.
 - (vii) Ambient air quality monitoring is started at 8 locations during March to May-2017.
 - (viii) Total water requirement is 63m³/day of which fresh water requirement of 50m³/day and will be met from bore well.
 - (ix) Treated effluent of 30.7m³/day will be treated through effluent treatment plant will be based on Zero Liquid Discharge system.
 - (x) Power requirement of proposed project will be 550 KVA and will be met from Uttar Gujarat Vij Company Limited (UGVCL). Stack (height 6 mt) will be provided as per CPCB norms to the proposed DG sets of 125 KVA which will be used as standby during power failure.
 - (xi) Cyclone separator followed by Bag filter and stack height of 30 mt will be installed for controlling the particulate emissions(within saturatory limit of 115 mg/Nm³) for proposed 1 TPH Coal/Briquettes fired boiler. One HSD fired Incinerator of 1200 lit/hr capacity with Caustic scrubber followed by 30 m stack height will be installed.
 - (xii) Caustic scrubber followed by stack will be used to control process emissions.
 - (xiii) ETP Sludge will be sent to TSDF site. Spent Catalyst/ Spent Carbon will be sent to CHWIF Site. Spent solvent will be sent to CHWIF Site or sold to approved vendor. Used / Spent Oil will be used within premises as a lubricant / sold to registered recycler. Discarded bags/ drums/ containers will be sold to authorized vendor
 - (xiv) Details of solid waste/hazardous waste generation and its management.
 - (xv) Following are the list of proposed products and their capacities:

Sr. No.	Name of Proposed Products	Quantity (MT/Month)
1.	Atenolol	9.6
2.	Glimepiride	10.0
3.	Atorvastatin Calcium	6.0
4.	Abacavir Sulfate	2.1
5.	Pantoprazole Sodium	16.0
6.	Olanzapine	3.2
7.	Rosuvastatin Calcium	1.5
8.	Montelukast sodium	5
9.	Carbidopa	1.5
10.	Amlodipine Besylate	6.8
11.	Hydroxychloroquine	4.0

12.	Labetalol hydrochloride	3.0
13.	Methylcobalamin	0.1
14.	Lafutidine	2.2
15.	Aripiprazole	3.0
16.	Levosulpride	2.1
17.	Fexofenadine Hydrochloride	2.2
18.	Folic acid	3.0
19.	Ipratropium Bromide	2.2
20.	Ursodeoxycholic acid	1.4
21.	Albuterol	1.5
22.	Saxagliptin	1.0
23.	Research And Development Product	0.5
Sr. No.	Name of Proposed By-Products	Quantity (MT/Month)
1.	Sodium bromide	0.6

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

A. Additional TOR:

- i. Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made.
- ii. Green belt plan with 10m width around the periphery of the unit with perennial trees to be submitted.

It was recommended that 'TORs' with Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of

	EIA' given in Appendix III and IIIA in the EIA Notification, 2006.
21.10.15	<p>Proposal for expanding the existing plant manufacture Melamine Formaldehyde Resin, Phenol Formaldehyde Resin and Urea Formaldehyde Resin as well as Laminated Sheets at Survey No.: 132/P1, Village: Bahadurgadh, Taluka& District: Morbi, Gujarat by M/s. Rebecca Laminates [IA/GJ/IND2/62619/2017, IA-J-11011/108/2017-IA-II(I)</p> <p>The project proponent and the accredited consultant M/s T. R. Associates gave a detailed presentation on the salient features of the project and informed that:</p> <ol style="list-style-type: none"> The proposal is for Expansion of synthetic organic resin at Survey No.: 132/P1, N.H 8A, Village: Bahadurgadh, Taluka and District: Morbi, Gujarat-363642 by M/s. Rebecca Laminates. All Synthetic organic chemicals industry projects (Bulk drugs and intermediates excluding drug formulations), located outside the notified industrial area/estate Products are listed at S.N. 5(f) of schedule of Environmental Impact Assessment (EIA) notification under category 'A' and are appraised at Central level by the Expert Appraisal Committee.(EAC). SEIAA has issued EC earliest vide letter no. SEIAA/GUJ/EC/5(f)/3075/2015; dated 21-08-2015 for P.F & M.F Resins unit to M/sRebecca Laminates. It is reported that no national parks, wildlife sanctuaries, Biosphere reserves, Tiger/Elephant reserves, wildlife corridors etc. Lies within 10 km distance. Machhu River is flowing at a distance a distance of 4.80 Km in NW direction. Existing land area is 14569 m². Same land will be used for proposed expansion. Industry will be developed greenbelt in an area of 33% i.e. 4810 m² out of 14569 m² of area of the project. The estimated project cost is Rs 7 Crore including existing investment of Rs 6.19 Crores. Total employment will be 70 person after expansion. Industry proposes to allocate Rs 2.5 @of 5/2.5% towards Corporate social responsibility. Ambient air quality monitoring is started at 8 locations during March to May 2017. Total water requirement is 53.5 m³/day of which fresh water requirement of 42.3 m³/day and will be met from GWIL (Narmada Pipeline). Treated effluent of Industrial wastewater is (6.1 KLD)will be treated through Primary treatment (oxidation) followed by evaporator & condenser. Plant will be based on Zero Liquid Discharge system. Power requirement after expansion will be 250 KVA including existing 225 KVA and will be met from PGVCL. Existing unit has1 D.G.set of 250 KVA capacity, additionally one DG sets of 250 KVA will be installed and will be used as standby during power failure. Existing unit has 4 TPH Lignite/Briquettes Fired boiler will be installed. Multi cyclone separator /bag filter with a stack height of 30 m will be installed for controlling the particulate emissions (within statutory limit of 150mg/Nm³) for proposed 4 TPH Lignite/Briquettes Fired boiler respectively. Condenser will be used to control process emission. ETP Sludge + Evaporation Residue will be sent to TSDF site. Used Oil will be used

within premises as a lubricant / sold to registered recycler. Discarded Plastic Bags / Barrels will be sold to authorized vendor. Edge Cutting Waste and Spent Carbon will be sent to CHWIF site.

xvii. Following are the list of existing and proposed products.

Sr. No.	Name of Product	Quantity (MT/Month)		
		Existing	Proposed	Total after Expansion
1	Phenol Formaldehyde Resin	87.5	412.5	500
2	Melamine Formaldehyde Resin	37.5	462.5	500
3	Urea Formaldehyde Resin	00	500	500
4	Laminated Sheets	69,000 Sheets/Month	1,81,000 Sheets/Month	2,50,000 Sheets/Month

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

A. Additional TOR:

- Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made.
- Green belt plan with 10m width around the periphery of the unit with perennial trees to be submitted.

It was recommended that 'TORs' with Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006.

21.10.16

Proposed Expansion of Specialty Chemicals in Existing Unit of M/S. Regal Remedies Ltd. (Unit-1) (Formally known as M/S. D. J. Fluorine) Plot No. C-1/6823, GIDC Estate, Ankleshwar, District: Bharuch-393002, Gujarat [IA/GJ/IND2/62370/2017, IA-J-11011/93/2017-IA-II(I)]

The Project Proponent and accredited Consultant M/s. Aqua-Air Environmental Engineers Pvt. Ltd., gave a detailed presentation on the salient features of the project & informed that:

- i. The proposal is for Proposed expansion of Specialty Chemicals manufacturing plant in existing unit at plot No. C-1/6823, GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s. Regal Remedies Ltd. (Unit-I).
- ii. All Synthetic organic chemicals located inside the notified industrial area/estate are listed at S.N. 5(f) under category 'B' but due to applicability of general condition (Critically polluted areas as notified by the Central Pollution Control Board(CPCB) and also falling project location within 5 km of Inter-State boundaries), it is treated as 'A' and appraised by Expert Appraisal Committee (I).
- iii. Existing land area is 1428 m²; No additional land will be used for proposed expansion.
- iv. Industry will be developed Greenbelt in an area of 33% i.e. 285 m² out of 1428 m² of area of the project.
- v. The estimated project cost is Rs. 600 Lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 100 Lakhs and the recurring cost (operation & maintenance) will be about Rs. 10 Lakhs per annum.
- vi. It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Narmada River is flowing at a distance a distance of 7 km in N direction.
- vii. Ambient air quality monitoring will be carried out at 8 locations during March-2017 to May-2017.
- viii. Total water requirement will be 28 m³/day of which fresh water requirement of 28 m³/day and will be met from GIDC Water Supply.
- ix. Treated effluent of 5 KL/Day will be sent to deep sea through NCTL pipeline& 5 KL/Day will be sent to Common MEE facility through dedicated tanker.
- x. Power requirement will be 125 HP and will be met from DGVCL.
- xi. Existing unit has Steam boiler & Hot Air Generator and unit has proposed TPH (1 lac K Cal.)
- xii. Details of Process emissions generation and its management
 - a. Unit has proposed Water & Alkali Scrubber to control process gas emission from Reaction Vessel.
- xiii. ETP Sludge will be sent for Disposal at TSDF of M/s. BEIL, Ankleshwar. Used Oil/Spent Oil will be sent to GPCB Authorized Reprocessor or reuse as lubricant of machinery. Empty Drums/Bag/Liners will be sold to to GPCB Authorized Vendor. Distillation Residue and Spent Carbon will be sent to Incinerator Site (M/s. BEIL, Ankleshwar) or given to cement industries for co-processing. Sodium Bromide/Hydrogen Bromide will be sold to end user for Bromine Recovery. Waste Cake (KCl) will be sold to end users. Spent Catalyst will be sent for disposal at TSDF Site (M/s. BEIL, Ankleshwar) or return to supplier for re-generation.
- xiv. Following are the list of existing & proposed products:

Speciality Products	Existing Qty.	Total Propose
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		(MT/Month)	d Qty. (MT/Month)
Existing			
1	Sodium Bifluoride	2.5	-
2	Potassium Silico Fluoride	0.1	-
3	Potassium Fluoborate	0.5	-
4	Potassium Titanium Fluoride	0.2	-
5	Ammonium Bifluoride	0.2	-
6	Calcium Fluoride	1.0	-
7	Pottasium Fluoride	0.15	50
8	Sodium Fluoride	1.0	
Proposed			
1	2-Bromo 4Fluoro Aniline	-	
2	Hydrogenation of Nitro compounds... (4-fluoro nitrobenzene/2-fluoronitrobenzene/Difluronitr benzene/N-ethyl-nitromethyl pyrrolidine/1(4-hydroxy phenyl)4--(4-nitrophenyl)piperazine) etc...	-	
3	4 Fluoro Nitrobenzene	-	
4	4F Phenol	-	
5	2F Phenol	-	
6	3 Bromo Benzotrifluoride	-	
7	2 Fluoro Nitrobenzene	-	
8	2,4 DiFluoro NitroBenzene	-	
9	4-Fluoroanisole	-	
10	2-Fluoroanisole	-	
11	4-Fluorophenylacetic acid	-	
12	2,4-difluorobenzylamine	-	
13	2-Chloro-1,3-Bis(Dimethyl Amino)Tri methinium Hexafluoro Phosphate	-	
14	4 Fluoro Benzaldehyde	-	
15	4 Fluoro Benzoic Acid	-	
16	4-Bromo Fluorobenzene	-	
17	Hexafluorophosphoric Acid	-	
18	BF3-Acetic acid	-	
19	Phenyl Ethyl Chloride	-	
20	HF-TEA	-	
Total		5.65	50
<p>After detailed deliberations, the Committee prescribed the following Specific TOR in addition to Generic TOR (refer Ministry's website) for preparation of EIA-EMP report:</p>			

	<p>A. Specific TOR:</p> <p>I. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.</p> <p>It was recommended that 'TORs' without Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.</p>
21.10.17	<p>Manufacturing of chemicals, pharmaceutical & bulk drugs at Plot No. 4801/A/12 ,Ankleshwar, Bharuch, Gujarat by M/s.Glindia Chemicals. [IA/GJ/IND2/62114/2017, IA-J-11011/84/2017-IA-II(I)]</p> <p>The project proponent informed following: _</p> <ol style="list-style-type: none"> The project involves manufacturing of chemicals, pharmaceutical & bulk drugs at Plot No. 4801/A/12, Ankleshwar, Bharuch, Gujarat by M/s Glindia Chemicals. All Synthetic organic chemicals located inside the notified industrial area/estate are listed at S.N. 5(f) under category 'B' but due to applicability of general condition (Critically polluted areas as notified by the Central Pollution Control Board(CPCB) and also falling project location within 5 km of Inter-State boundaries), it is treated as 'A' and appraised by Expert Appraisal Committee (I). It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Narmada River is flowing at a distance a distance of 7 km in N direction. As per EIA notification 2006 and its amendment, the proposed project is falling under category 5(f). Unit had got EC file no. J-11011/573 /2008 -IA II(I) dated November 17, 2008. Unit had not converted EC to CTE or CCA. The unit is having CCA for manufacturing of Hexamethyl Disilazone (HMDS) and Trimethyl Chlorosilane. The total plot area of the unit is 810.75 m². The green belt area will be 244.15 m². The raw material is attached as Annexure 1. The water consumption for industrial purpose is 11.5 KL/day (3.5 KL/Day Existing + 8 KL/Day Proposed).The water consumption for the domestic & gardening purpose will be 8 KL/day. The existing connected load is 75HP. Additional load will be 50HP.It will be met through Dakshin Gujarat Vij Company Ltd. The unit will be use Natural gas as fuel for IBR Boiler. Diesel will be used in D.G. set. Spent H₂SO₄ will be sent to HWSA & BEIL for incineration. Used Oil will be sold to MOEF authorized agency. Discarded PP bags & Liners/Empty drums will be reused & returned back to the actual suppliers for similar use. Process residue will be sent to BEIL for incineration. ETP + MEE Sludge will be sent to TSDF site. HCl-20%, Ammonium Chloride powder, Sulfuric acid and Sodium sulfate will be sold to

- authorized end user.
- viii. The expected cost of proposed expansion is Rs 161 Lacs.
- ix. They have now proposed to go for expansion on CCA Quantity. The names of products with production quantities given below:-

S. No.	Product	Quantity as per EC file no. J-11011/573 /2008 -IA II(I) in MT/Month	Quantity as per CCA: A-57533 in MT/Month	Quantity as per Proposed for EC MT/Month	Quantity After Expansion in MT/Month
	Group A: Silen Derivatives-170 MT/Month				
1.	HexamethylDisilazane (HMDS) And/Or	50.35	0.35	170	170
2.	TrimethylChlorosilane (TMCS) And/Or	27.4	2.4		
	Group B:Sodium Carboxylate-20 MT/Month				
3.	Sodium 2-Ethyl Hexonate	15	0	20	20
	Group C: Alcohol hydrochloride-30 MT/Month				
4.	Isopropyl Alcohol.HClAnd/Or	20	0	30	30
5.	Methyl Alcohol.HClAnd/Or	10	0		
	Group D: Chlorosulphonated Product-25 MT/Month				
6.	Para Toluene Sulfochloride (PTSCL)	0	0	25	25
	Group E: Ammonium Carboxylate-25 MT/Month				
7.	Ammonium formate	0	0	25	25
	Total	122.75	2.75	250	250

After detailed deliberations, the Committee prescribed the following additional Specific TOR in addition to Generic TOR (refer Ministry's website) for preparation of EIA-EMP report:

A. Specific TOR:

- i. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.

It was recommended that 'TORs' without Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for

	<p>the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.</p>
21.10.18	<p>Proposed Expansion of Specialty Chemicals in Existing Premises of M/s. Scientific Life Science Plot No. 9113/3, Nr. Iron Exchange, GIDC Estate Ankleshwar-393002, Dist. Bharuch, Gujarat [IA/GJ/IND2/62192/2017, IA-J-11011/85/2017-IA-II(I)]</p> <p>The Project Proponent and accredited Consultant M/s. Aqua-Air Environmental Engineers Pvt. Ltd., gave a detailed presentation on the salient features of the project & informed that:</p> <ol style="list-style-type: none"> The proposal is for Proposed expansion of Specialty Chemicals manufacturing plant in existing unit at plot No. 9113/1, GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s. Scientific Life Science. All Synthetic organic chemicals located inside the notified industrial area/estate are listed at S.N. 5(f) under category 'B' but due to applicability of general condition (Critically polluted areas as notified by the Central Pollution Control Board(CPCB) and also falling project location within 5 km of Inter-State boundaries), it is treated as 'A' and appraised by Expert Appraisal Committee (I). It is reported that No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Narmada River is flowing at a distance a distance of 7 km in N direction. Existing land area is 1888 m²; No additional land will be used for proposed expansion. Industry will be developed Greenbelt in an area of 33% i.e. 300 m² out of 1888 m² of area of the project. The estimated project cost is Rs. 2 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 1 Crores and the recurring cost (operation & maintenance) will be about Rs. 10 Lakhs per annum. Total employment will be 80% persons as direct & 20% persons indirect for proposed project. Industry purposes to allocate Rs. 1 Lakhs @ 2.5 % towards Corporate Social Responsibility. Ambient air quality monitoring will be carried out at 8 locations during March-2017 to May-2017. Total water requirement will be 19.9 m³/day of which fresh water requirement of 19.9 m³/day and will be met from GIDC Water Supply. Treated effluent of 5 KL/Day will be sent to CETP, Ankleshwar. Power requirement will be 500 KVA and will be met from DGVCL. Existing unit has Steam boiler (600 kg/hr) & unit has proposed Thermopack (2 Lac. KCal). Multicyclone Separator with bag filter will be installed to control flue gas emission. ETP Sludge will be sent to TSDF site. Residue from Distillation/ Organic Process Waste will be sent to send to cement industries for co-processing or incineration in CHWIF. Discarded bags & Liners/Empty drums will be Sold to GPCB authorized Vendor. Used

Oil will be sold to GPCB registered re-processor. Inorganic Salts (Spray Dryer) will be sold to end user. Spent Catalyst will be sold to regenerator. Ammonia and Acetic Acid will be sold to Sell to end user.

xiv. Following are the list of existing & proposed products:

Sr. No.	Product Name	Existing Capacity (MT/Month)	Proposed Capacity (MT/Month)	Quantity (MT/Month)
Existing				
1	Potassium Sulphate	500	--	500
2	Tri Sodium Phosphate			
3	Potassium Chloride			
4	Calcium Nitrate			
Proposed				
5	Cyclopropyl amineOR	--	5.0	5.0
6	Alpha tetralone OR		7.0	7.0
7	Trimethylsilyl bromide OR		35.0	35.0
8	Imidazole hydrochloride OR		50.0	50.0
9	2-Methyl-4-benzonitrile OR	--	7.0	7.0
10	2-Aminothiophenol OR		6.5	6.5
11	6-chloro-2,4-diaminopyrimidine OR		7.5	7.5
12	2-mesitylenesulfonyl hydrazide OR		20.0	20.0
13	1,3-difluorobenzene OR		6.0	6.0
14	Methyl 4-(hydroxymethyl)benzoate OR		37.0	37.0
15	1,4-diamino-2-nitro-5-chlorobenzene OR		6.0	6.0
16	1, 1(3-CHLORO PHENYL) 4(3-CHLORO PROLYE) PIPERAZINE HYDROCHLORIDE		20.0	20.0
Total		500	50.0	550.0

After detailed deliberations, the Committee prescribed the following additional TOR in addition to standard TOR (refer Ministry's website) for preparation of EIA-EMP report:

A. Specific TOR:

- i. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.

	It was recommended that 'TORs' without Public Consultation prescribed by the Expert Appraisal Committee (Industry) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted as per para 7(i) III stage (3) (i) (b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified industrial area.
21.10.19	<p>Expansion & Modernization of existing project for manufacturing of explosives and defense products at Village – Chakdoh Near Bazargaon, Tahsil - Katol, Dist. Nagpur-440 023 by M/s Solar Industries India Limited-TOR reg.[IA/MH/IND2/61877/2017, IA-J-11011/28/2017-IA-II(I)]</p> <p>PP did not attend the meeting. The EAC decided to defer the proposal.</p>

List of the Chairman and Members of the Expert Appraisal Committee (EAC) for Industry-2.

Sr. No.	Name and Address	
1.	<p><u>Dr. J. P. Gupta</u></p> <p>A- 1/2 Panchsheel Enclave, New Delhi- 110070</p> <p>E-mail: jpglobalconsultinggroup@gmail.com</p>	Chairman
2.	<p><u>Sh. R. K. Singh</u></p> <p>301, Tulsi Meadows Building, St. Anthony's Road, Near Uttam Society, Chembur, Mumbai-400071, Maharashtra</p> <p>E-mail: rxsingh7854@gmail.com</p>	Member
3.	<p><u>Dr. Ahmed Kamal</u></p> <p>8-2-619, Road no.11, Banjara Hills, Hyderabad 500034.</p>	Member

	E-mail: ahmedkamal@iict.res.in	
4.	<p><u>Prof. J.R. Mudakavi</u></p> <p>1128, Adarsha Layout, West of Chord Road, III Stage, I Block, Basaveshwar Nagar, Bangalore- 560079</p> <p>E-mail: mudakavijr@gmail.com</p>	Member
5.	<p><u>Dr. N. Nandini</u></p> <p>Reader Quarters 7, Jnanabharthi campus, Bangalore University</p> <p>E-mail: nandini.sai@rediffmail.com</p>	Member
6.	<p><u>Prof. (Dr.) H.R. V Reddy</u></p> <p>Director of Research, Karnataka Veterinary Animal & Fisheries Sciences University, College of Fisheries Campus, Kankanady, Mangalore- 575002</p> <p>E-mail: hvrreddy@yahoo.co.in, drkvafsu@gmail.com</p>	Member
7.	<p><u>Ms.SaloniGoel</u></p> <p><u>B-701,CSI Towers, VipinKhand, Gomti Nagar, Lucknow-226010</u></p> <p>E-mail sgoel.eac@gmail.com</p>	Member
8.	<p><u>Shri Sanjay Bist</u></p> <p>Scientist- D</p> <p>Indian Meteorological Department, MausamBhawan, Lodhi Road, New Delhi- 110003</p> <p>E-mail: sanjay.bist@imd.gov.in</p>	Member
13.	<p><u>Sh. Paritosh Kumar</u></p> <p>Additional Director,</p> <p>Central Pollution Control Board, New Delhi</p>	Member

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14	<u>Prof. (Dr.) Y.V. Rami Reddy</u> Dept.of Chemistry, S V University, Tirupati Andhra Pradesh E-mail: dryvrsvu@gmail.com	Member
15.	<u>Shri Yogendra Pal Singh</u> Room No. 236, Vayu Wing, 2 nd Floor, Ministry of Environment, Forest & Climate Change, JorBagh Road, New Delhi-110003 E-mail: yogendra78@nic.in Tele-fax : 01124695365	Member Secretary